

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

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**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 01, 2015

**Lab Report ID:** 15060005

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

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**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15060005) consists of 2 water samples received on 06/01/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS11231              | FRS-LOC5-T150601110302 | 06/01/2015 06:00       |
| AS11232              | FRS-WAFA-T150601110234 | 06/01/2015 06:00       |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/01/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Sample (LAB ID: AS11231) was re-extracted due to low surrogate recoveries for the original analyses. Results for the re-extraction are provided with a RE1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Monroeville, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150601110454PACE

Sample Custodian: JR

Lab: PACE

| COC Sample Number | Field Sample ID        | QA/QC | Matrix ** | Date Collected | Time Collected | Media * | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|------------------------|-------|-----------|----------------|----------------|---------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | FRS-LOC5-T150601110302 | ENV   | W         | 06/01/2015     | 06:00          | W       | 3            | AS11231        | Total Suspended Solids | SM 2540D | N   | N  | N                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |
| 002               | FRS-WAFA-T150601110234 | ENV   | W         | 06/01/2015     | 06:00          | W       | 4            | AS11232        | Total Suspended Solids | SM 2540D | N   | N  | Y                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | Y   | N  | N                      | 24           | 4degC |

|                                     |                               |                               |                               |                               |                               |
|-------------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Comments: Temp. 2.3°C Col seal: (Y) |                               |                               |                               |                               |                               |
| <b>Relinquished by:</b>             | <b>Received by:</b>           | <b>Relinquished by:</b>       | <b>Received by:</b>           | <b>Relinquished by:</b>       | <b>Received by:</b>           |
| Signature: <i>[Signature]</i>       | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> |
| Print Name: Shaun Surmi             | Print Name: M. MANUCCI        | Print Name: M. MANUCCI        | Print Name: J.A. BILITTO      | Print Name:                   | Print Name:                   |
| Company: AQ                         | Company: PACE                 | Company: PACE                 | Company: PACE                 | Company:                      | Company:                      |
| Date/Time: 6/1/15 1130              | Date/Time: 6-1-15 1215        | Date/Time: 6-1-15 1300        | Date/Time: 6/1/15 13:00       | Date/Time:                    | Date/Time:                    |

**Sample Condition Upon Receipt**

<15060005P2>



CLIENT NAME: GE  
PROJECT: HR Ramp (AEEA)

COURIER: FedEx  UPS  Client  Pace  Other   
TRACKING # N/A CUSTODY SEAL PRESENT: Yes  No   
PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other   
THERMOMETER USED: #164  IR Gun 03  #122087967   
BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

INTACT: Yes  No  N/A   
ICE USED: Wet  Blue  None   
COOLER TEMPERATURE (°C): 2.3  
Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |
|--|---|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>24 hr.</u>                        |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |
| - Includes date/time/ID/Analysis   |   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| - Exceptions that are not checked: VOA   |   |  |   |
| Initial when completed:  | <u>N/A</u>                              | Lot # of added preservative:           | <u>N/A</u>                              |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Pace Trip Blank Lot #:   | <u>N/A</u>                              |  |   |

Sample Receipt form filled in: AJB 6/1/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
Log In (Includes notifying PM of any discrepancies and documenting in LIMS):  
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

AJB 6/1/15  
ATM 6/1/15  
AJB 6/1/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060005

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060005  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/01/2015 13:00  
**SHIPPED VIA:** PICK UP <sup>1</sup>  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 1  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.3 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
<sup>3</sup> **SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150601110302 (AS11231) | *24 HOUR* 06-02-15        | 06/01/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-02-15        | 06/01/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150601110234 (AS11232) | *24 HOUR* 06-02-15        | 06/01/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-02-15        | 06/01/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           | MS         |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/02/15

Batch ID: 30913

Method: EPA 3535A

Initial for required Clean Up Steps

| ID | Prep ID | LAB Sample ID | Alt Sample ID | Matrix | pH | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |
|----|---------|---------------|---------------|--------|----|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|
|    |         |               |               |        |    |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |
| 1  | 307225  | PBLK-79       | AS11231B      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 2  | 307224  | LCS-79        | AS11231L      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 3  | 307221  | 15060005-01   | AS11231RE1    | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 4  | 307222  | 15060023-01   | AS11339       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 5  | 307223  | 15060023-02   | AS11340       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaul*

Elizabeth Ramkirpaul

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

PCB EXTRACTION LOG



Prep Date: 06/01/15

Batch ID: 30897

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307110        | PBLK-64       | AS11232B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/01                    | NA                          | 06/01                 | 06/01               | 5                 | 06/01    |  |
| 2       | 307109        | LCS-64        | AS11232L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/01                    | NA                          | 06/01                 | 06/01               | 5                 | 06/01    |  |
| 3       | 307107        | 15060005-02MS | AS11232M | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 900                 | NA                   | NA                  | NA                   | NA                                  | 06/01                    | NA                          | 06/01                 | 06/01               | 5                 | 06/01    |  |
| 4       | 307106        | 15060005-01   | AS11231  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1020                | NA                   | NA                  | NA                   | NA                                  | 06/01                    | NA                          | 06/01                 | 06/01               | 5                 | 06/01    |  |
| 5       | 307108        | 15060005-02   | AS11232  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 920                 | NA                   | NA                  | NA                   | NA                                  | 06/01                    | NA                          | 06/01                 | 06/01               | 5                 | 06/01    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                                   | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar)                     | DM024               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

Cathy Chen

Peer Review:

Elizabeth Ramkirpaul

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

LRF: 15060005

Batch ID: 30913

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst   | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|--------------------|------------------|
| AS11231B      | GC28F-1631-35 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11231L      | GC28F-1631-36 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11231RE1    | GC28F-1631-37 | Water  | 06/02/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11339RR1    | GC28F-1631-42 | Water  | 06/02/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11340       | GC28F-1631-39 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |

5

COMMENTS: \_\_\_\_\_

# PCB SCREEN SHEET

LRF: 15060005

Batch ID: 30897

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst   | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|--------------------|------------------|
| AS11232B      | GC28F-1630-31 | Water  | 06/01/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11232L      | GC28F-1630-32 | Water  | 06/01/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11232M      | GC28F-1630-33 | Water  | 06/01/15  | 900                  | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11232       | GC28F-1630-35 | Water  | 06/01/15  | 920                  | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1  
PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060005

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-79        | AS11231B      | GC28F-1631-35 | 93.4                   | 104                    |           |           | 0         |
| PBLK-64        | AS11232B      | GC28F-1630-31 | 84.8                   | 98.8                   |           |           | 0         |
| LCS-79         | AS11231L      | GC28F-1631-36 | 89.6                   | 102                    |           |           | 0         |
| LCS-64         | AS11232L      | GC28F-1630-32 | 84.0                   | 94.8                   |           |           | 0         |
| 15060005-01RE1 | AS11231RE1    | GC28F-1631-37 | 94.8                   | 76.2                   |           |           | 0         |
| 15060005-02    | AS11232       | GC28F-1630-35 | 89.6                   | 73.2                   |           |           | 0         |
| 15060005-02MS  | AS11232M      | GC28F-1630-33 | 95.3                   | 78.2                   |           |           | 0         |

6

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# MATRIX SPIKE SUMMARY

**3F-1**  
**MATRIX SPIKE (MS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 15060005

MS LRF ID: 15060005-02MS

Sample LRF ID: 15060005-02

MS Lab File ID: GC28F-1630-33

Sample File ID: GC28F-1630-35

MS Sample Inj Date: 06/01/2015 20:28:29

Sample Inj Date: 06/01/2015 20:56:25

MS Lab Sample ID: AS11232M

Sample ID: AS11232

| COMPOUND     | CALC. SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS PERCENT RECOVERY # | QC LIMITS <sup>1</sup> PERCENT RECOVERY |
|--------------|--------------------------|-----------------------------|-------------------------|-----------------------|---|
| Aroclor 1242 | 0.278                    | 0.0369                      | 0.307                   | 97.3                  | (70.0-130)                              |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup> QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060005</u>                           |
| LCS Lab ID: <u>LCS-64</u>                | Blank Sample ID: <u>PBLK-64</u>                   |
| LCS File ID: <u>GC28F-1630-32</u>        | Method Blank File ID: <u>GC28F-1630-31</u>        |
| LCS Inj Date: <u>06/01/2015 20:14:52</u> | Method Blank Inj Date: <u>06/01/2015 20:01:00</u> |
| LCS ID: <u>AS11232L</u>                  | Method Blank ID: <u>AS11232B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.238                       | 95.0                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060005</u>                           |
| LCS Lab ID: <u>LCS-79</u>                | Blank Sample ID: <u>PBLK-79</u>                   |
| LCS File ID: <u>GC28F-1631-36</u>        | Method Blank File ID: <u>GC28F-1631-35</u>        |
| LCS Inj Date: <u>06/02/2015 18:54:09</u> | Method Blank Inj Date: <u>06/02/2015 18:40:01</u> |
| LCS ID: <u>AS11231L</u>                  | Method Blank ID: <u>AS11231B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.244                       | 97.4                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060005</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-64</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11232B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1630-31</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/01/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/01/2015</u>  |
|  | Time Analyzed: <u>20:01:00</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-64(LAB CONTROL SPIKE) | AS11232L         | GC28F-1630-32  | 06/01/2015 20:14:52     |
| FRS-WAFA-T150601110234 MS | AS11232M         | GC28F-1630-33  | 06/01/2015 20:28:29     |
| FRS-WAFA-T150601110234    | AS11232          | GC28F-1630-35  | 06/01/2015 20:56:25     |

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060005</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-79</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11231B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1631-35</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/02/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/02/2015</u>  |
|  | Time Analyzed: <u>18:40:01</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-79(LAB CONTROL SPIKE) | AS11231L         | GC28F-1631-36  | 06/02/2015 18:54:09     |
| FRS-LOC5-T150601110302    | AS11231RE1       | GC28F-1631-37  | 06/02/2015 19:08:07     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060005-01RE1</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-LOC5-T150601110302</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS11231RE1</u>         |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1631-37</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/01/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/02/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/02/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0619                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0182                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11231RE1              | Sample Amount (L) : | 1.0400                       |
| Sample ID:         | FRS-LOC5-T150601110302  | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 7:08:07 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 11:04:35 PM EDT     |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:16:56 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-37 [m]            |

**Peak Results**

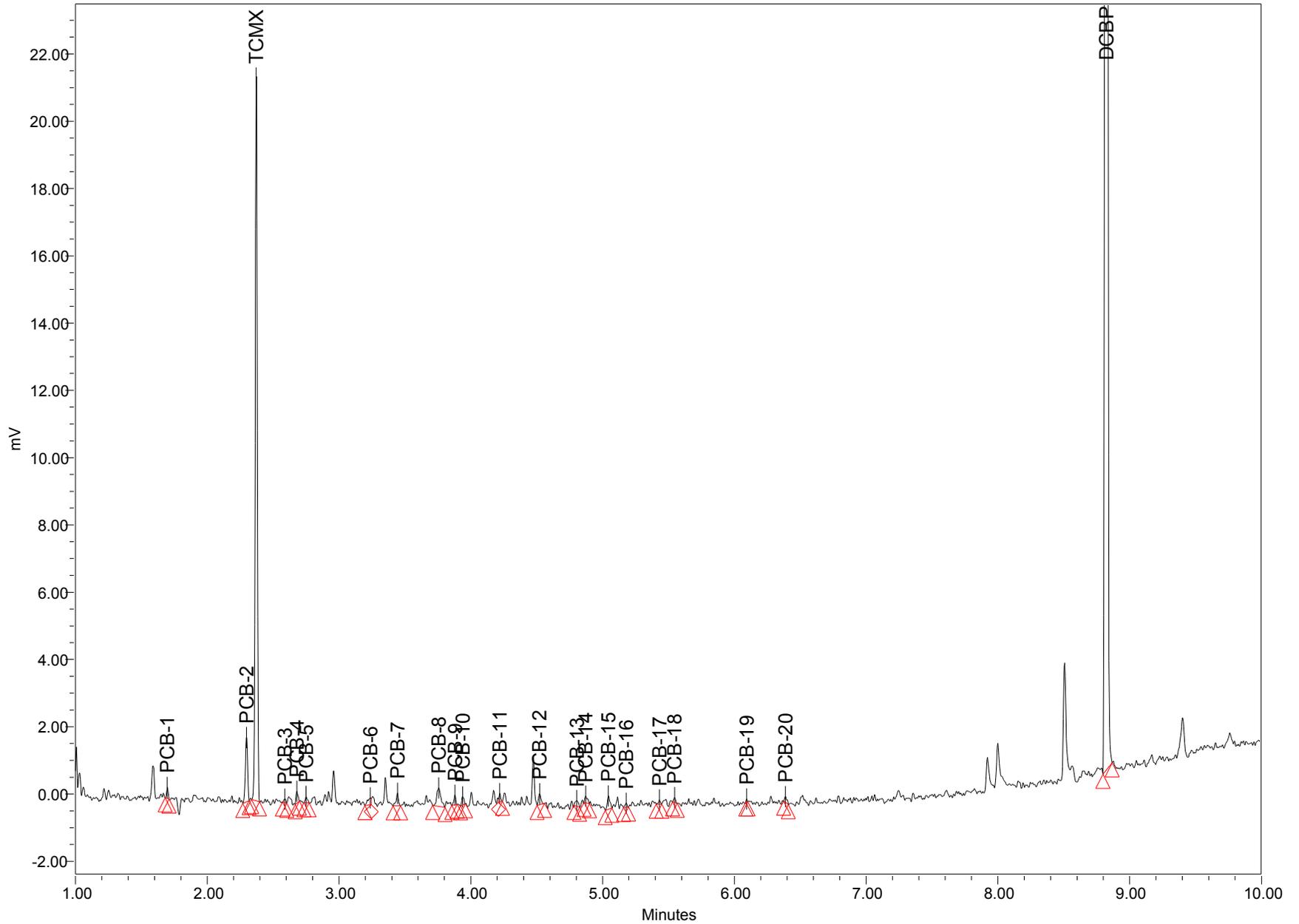
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | bb               | 280           |                      |             |             |
| 2  | PCB-2     | 2.298          | bb               | 2251          |                      |             |             |
| 3  | TCMX      | 2.372          | bb               | 23155         | 4.740                | 94.8        |             |
| 4  | PCB-3     | 2.588          | bb               | 124           |                      |             |             |
| 5  | PCB-4     | 2.680          | bb               | 348           |                      |             |             |
| 6  | PCB-5     | 2.750          | bb               | 222           |                      |             |             |
| 7  | PCB-6     | 3.237          | bv               | 364           |                      |             |             |
| 8  | PCB-7     | 3.443          | bb               | 460           |                      |             |             |
| 9  | PCB-8     | 3.757          | bb               | 1199          |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 287           |                      |             |             |
| 11 | PCB-10    | 3.938          | bb               | 299           |                      |             |             |
| 12 | PCB-11    | 4.219          | Vb               | 218           |                      |             |             |
| 13 | PCB-12    | 4.521          | bb               | 423           |                      |             |             |
| 14 | PCB-13    | 4.805          | bb               | 283           |                      |             |             |
| 15 | PCB-14    | 4.871          | bb               | 268           |                      |             |             |
| 16 | PCB-15    | 5.044          | bb               | 547           |                      |             |             |
| 17 | PCB-16    | 5.179          | bb               | 138           |                      |             |             |
| 18 | PCB-17    | 5.431          | bb               | 119           |                      |             |             |
| 19 | PCB-18    | 5.546          | bb               | 131           |                      |             |             |
| 20 | PCB-19    | 6.093          | bb               | 46            |                      |             |             |
| 21 | PCB-20    | 6.387          | bb               | 220           |                      |             |             |
| 22 | DCBP      | 8.822          | bb               | 158628        | 38.088               |             | 76.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 2608.4524           | 2.922                | 0.01405     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 3224.2114           | 12.876               | 0.06190     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 973.3974            | 4.686                | 0.02253     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 3002.6886           | 24.217               | 0.11643     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 2465.8790           | 5.643               | 0.02713     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 980.3001            | 4.337               | 0.02085     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 2608.4524           | 3.789               | 0.01821     | 0.0250   | 0.00873  | X      | AD,J |
| 8  | A1248       | 1739.8990           | 1.834               | 0.00882     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 975.1245            | 2.008               | 0.00965     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 924.6933            | 2.271               | 0.01092     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 653.8335            | 0.858               | 0.00413     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 403.7631            | 0.969               | 0.00466     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 387.6100            | 0.771               | 0.00371     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 433.9335            | 0.832               | 0.00400     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 219.9000            | 0.065               | 0.00031     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 219.9000            | 0.666               | 0.00320     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 219.9000            |                     |             |          |          | NR     |      |



SampleName AS11231RE1; Sample\_ID FRS-LOC5-T150601110302

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060005-02</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150601110234</u> |
| Sample wt(Dry)/vol: <u>920 mL</u>                                      | Lab Sample ID: <u>AS11232</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1630-35</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/01/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/01/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/01/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0272                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0866                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0272                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0369                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0272                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0272                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0272                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                          |
|--------------------|-------------------------|---------------------|--------------------------|
| Sample Name:       | AS11232                 | Sample Amount (L) : | 0.9200                   |
| Sample ID:         | FRS-WAFA-T150601110234  | Dilution:           | 5                        |
| Date Acquired:     | 6/1/2015 8:56:25 PM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/1/2015 10:12:58 PM EDT |
| Sample Set Name:   | GC28F_060115b           | User Name:          | Jared Acker (JaredA)     |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:       | 12:00:48 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L      | LIMS File ID:       | GC28F-1630-35 [m]        |

**Peak Results**

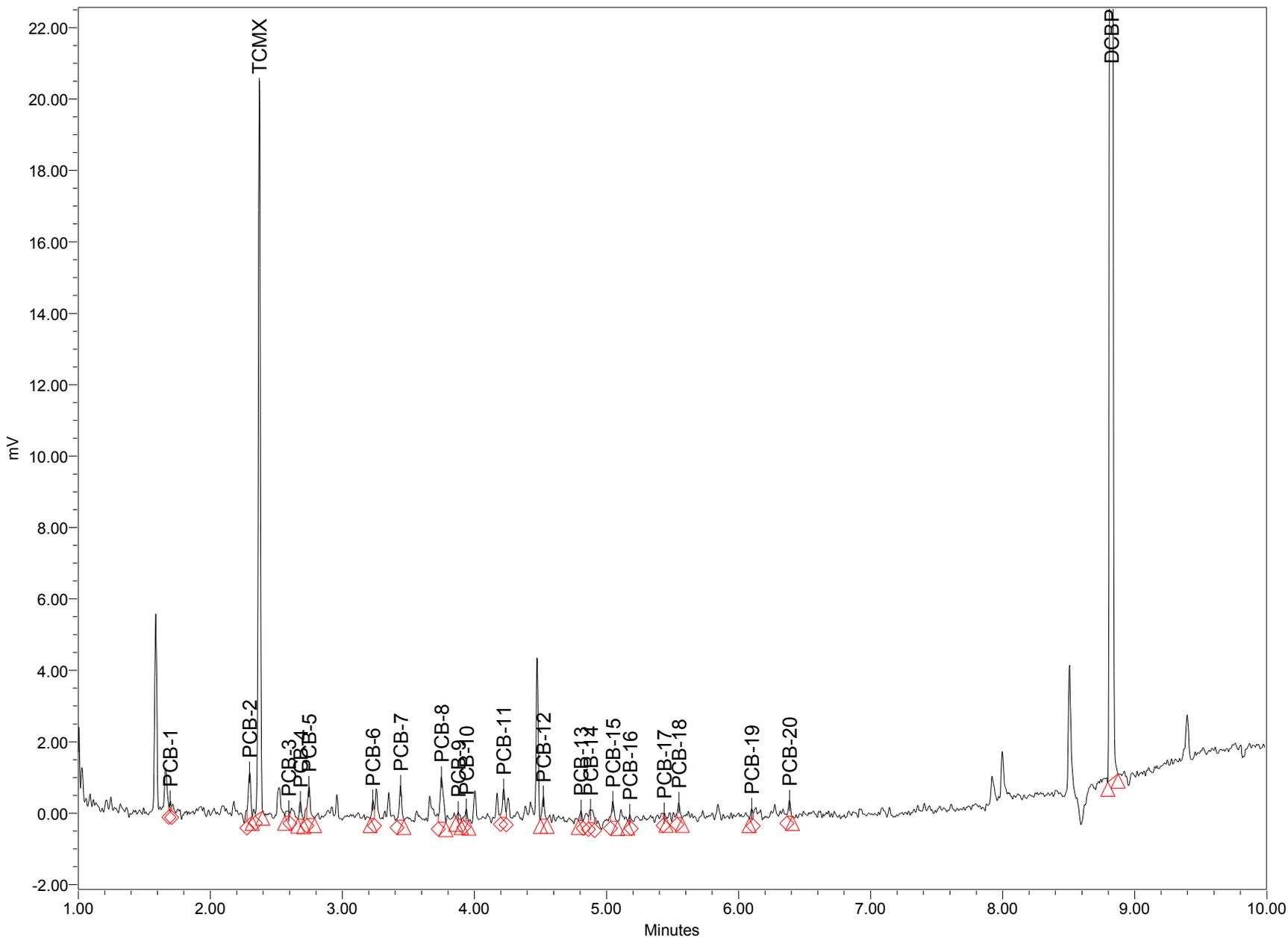
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | VV               | 207           |                      |             |             |
| 2  | PCB-2     | 2.297          | Vb               | 1708          |                      |             |             |
| 3  | TCMX      | 2.371          | VB               | 21917         | 4.481                | 89.6        |             |
| 4  | PCB-3     | 2.594          | bv               | 295           |                      |             |             |
| 5  | PCB-4     | 2.681          | bb               | 570           |                      |             |             |
| 6  | PCB-5     | 2.747          | vb               | 1212          |                      |             |             |
| 7  | PCB-6     | 3.231          | bV               | 542           |                      |             |             |
| 8  | PCB-7     | 3.440          | vb               | 1197          |                      |             |             |
| 9  | PCB-8     | 3.750          | Vb               | 2215          |                      |             |             |
| 10 | PCB-9     | 3.877          | bB               | 255           |                      |             |             |
| 11 | PCB-10    | 3.938          | vb               | 374           |                      |             |             |
| 12 | PCB-11    | 4.221          | vV               | 1025          |                      |             |             |
| 13 | PCB-12    | 4.522          | bb               | 728           |                      |             |             |
| 14 | PCB-13    | 4.807          | bV               | 314           |                      |             |             |
| 15 | PCB-14    | 4.878          | vV               | 820           |                      |             |             |
| 16 | PCB-15    | 5.047          | vb               | 761           |                      |             |             |
| 17 | PCB-16    | 5.177          | bv               | 162           |                      |             |             |
| 18 | PCB-17    | 5.436          | vb               | 127           |                      |             |             |
| 19 | PCB-18    | 5.547          | vb               | 473           |                      |             |             |
| 20 | PCB-19    | 6.100          | bV               | 301           |                      |             |             |
| 21 | PCB-20    | 6.386          | vb               | 522           |                      |             |             |
| 22 | DCBP      | 8.822          | Bb               | 152969        | 36.608               |             | 73.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 4583.0133           | 5.271                | 0.02865     | 0.0272   | 0.00949  | NR     |      |
| 2 | A1221      | 3992.0924           | 15.927               | 0.08656     | 0.0272   | 0.00949  | X      | PB   |
| 3 | A1221-2    | 2283.8370           | 10.163               | 0.05523     | 0.0272   | 0.00949  | NR     |      |
| 4 | A1221-5    | 2780.2108           | 22.454               | 0.12203     | 0.0272   | 0.00949  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 5252.5269           | 12.032              | 0.06539     | 0.0272   | 0.00949  | NR     |      |
| 6  | A1232-8/9   | 2782.5958           | 13.184              | 0.07165     | 0.0272   | 0.00949  | NR     |      |
| 7  | A1242       | 4583.0133           | 6.792               | 0.03691     | 0.0272   | 0.00949  | X      | AD   |
| 8  | A1248       | 3647.7591           | 4.416               | 0.02400     | 0.0272   | 0.00949  | NR     |      |
| 9  | A1248-11/15 | 1861.7597           | 3.853               | 0.02094     | 0.0272   | 0.00949  | NR     |      |
| 10 | A1248-14/15 | 2067.0882           | 5.480               | 0.02978     | 0.0272   | 0.00949  | NR     |      |
| 11 | A1254       | 1584.3697           | 1.695               | 0.00921     | 0.0272   | 0.00949  | NR     |      |
| 12 | A1254-17/18 | 985.3075            | 1.867               | 0.01015     | 0.0272   | 0.00949  | NR     |      |
| 13 | A1254-19/20 | 761.4902            | 1.346               | 0.00731     | 0.0272   | 0.00949  | NR     |      |
| 14 | A1254-20    | 1062.1484           | 1.565               | 0.00851     | 0.0272   | 0.00949  | NR     |      |
| 15 | A1260       | 522.2214            | 0.313               | 0.00170     | 0.0272   | 0.00949  | NR     |      |
| 16 | A1260-23/24 | 522.2214            | 0.969               | 0.00527     | 0.0272   | 0.00949  | NR     |      |
| 17 | A1262       | 522.2214            |                     |             |          |          | NR     |      |



SampleName AS11232; Sample\_ID FRS-WAFA-T150601110234



|                    |                        |                      |                       |
|--------------------|------------------------|----------------------|-----------------------|
| Lab ID:            | AS11232                | Current Date Time:   | 6/9/2015 12:37:26     |
| Sample ID:         | FRS-WAFA-T150601110234 | LIMS File ID:        | GC28F-1630-35         |
| Matrix:            | Water                  | Calibration ID:      | 6976                  |
| Date Analyzed:     | 06/01/2015 8:56:25 PM  | Calibration Date(s): | 03/12/2015,03/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                       |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{3992.092395 - -16.185578}{251.658479} = 15.9275 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{15.9275 \text{ ng/mL} * 5.0 \text{ mL} * 1}{920 \text{ mL}} = 0.0866 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

10

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060005

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060005

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1260 50 PPB              | CS600601A   | GC28F-1630-25        | 06/01/2015 17:50:03        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150601B05   | GC28F-1630-26        | 06/01/2015 18:03:55        | 2.37                       | 8.82 |
| 58   | ZZZZZ                     | ZZZZZ       | GC28F-1630-28        | 06/01/2015 19:19:13        | 2.37                       | 8.82 |
| 59   | ZZZZZ                     | ZZZZZ       | GC28F-1630-29        | 06/01/2015 19:33:10        | 2.37                       | 8.82 |
| 60   | PBLK-64(METHOD BLANK)     | AS11232B    | GC28F-1630-31        | 06/01/2015 20:01:00        | 2.37                       | 8.82 |
| 61   | LCS-64(LAB CONTROL SPIKE) | AS11232L    | GC28F-1630-32        | 06/01/2015 20:14:52        | 2.37                       | 8.82 |
| 62   | FRS-WAFA-T150601110234 MS | AS11232M    | GC28F-1630-33        | 06/01/2015 20:28:29        | 2.37                       | 8.82 |
| 63   | FRS-WAFA-T150601110234    | AS11232     | GC28F-1630-35        | 06/01/2015 20:56:25        | 2.37                       | 8.82 |
| 64   | A1016 50 PPB              | CS160601A   | GC28F-1630-36        | 06/01/2015 21:10:21        | 2.37                       | 8.82 |
| 65   | HEXANE BLANK-SURR         | 150601B07   | GC28F-1630-37        | 06/01/2015 21:24:12        | 2.37                       | 8.82 |
| 66   | A1242 50 PPB              | CS420602A   | GC28F-1631-33        | 06/02/2015 18:01:13        | 2.37                       | 8.82 |
| 67   | HEXANE BLANK-SURR         | 150602B08   | GC28F-1631-34        | 06/02/2015 18:15:04        | 2.37                       | 8.82 |
| 68   | PBLK-79(METHOD BLANK)     | AS11231B    | GC28F-1631-35        | 06/02/2015 18:40:01        | 2.38                       | 8.83 |
| 69   | LCS-79(LAB CONTROL SPIKE) | AS11231L    | GC28F-1631-36        | 06/02/2015 18:54:09        | 2.37                       | 8.82 |
| 70   | FRS-LOC5-T150601110302    | AS11231RE1  | GC28F-1631-37        | 06/02/2015 19:08:07        | 2.37                       | 8.82 |
| 71   | ZZZZZ                     | ZZZZZ       | GC28F-1631-39        | 06/02/2015 19:35:51        | 2.37                       | 8.82 |
| 72   | A1248 50 PPB              | CS480602A   | GC28F-1631-40        | 06/02/2015 19:49:52        | 2.37                       | 8.82 |
| 73   | HEXANE BLANK-SURR         | 150602B09   | GC28F-1631-41        | 06/02/2015 20:03:39        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060005

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060005

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

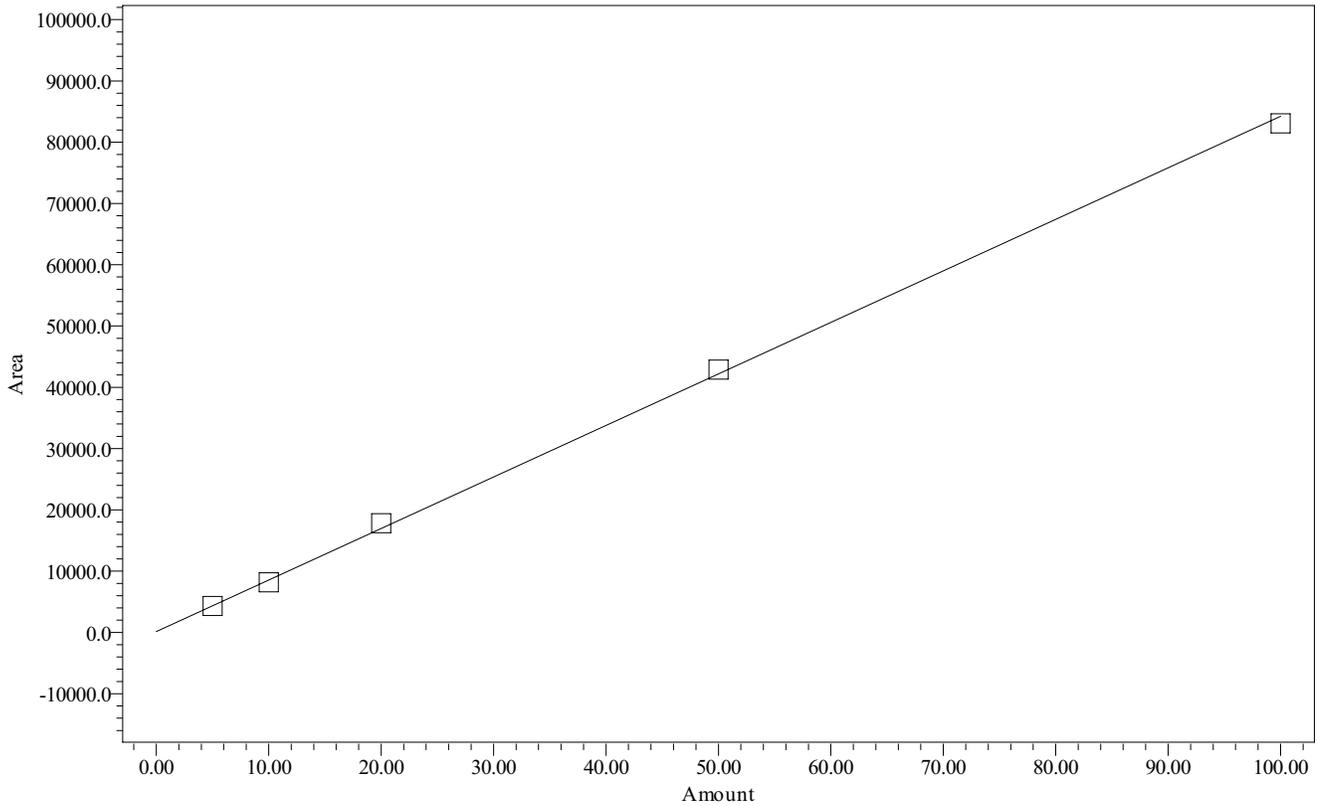
Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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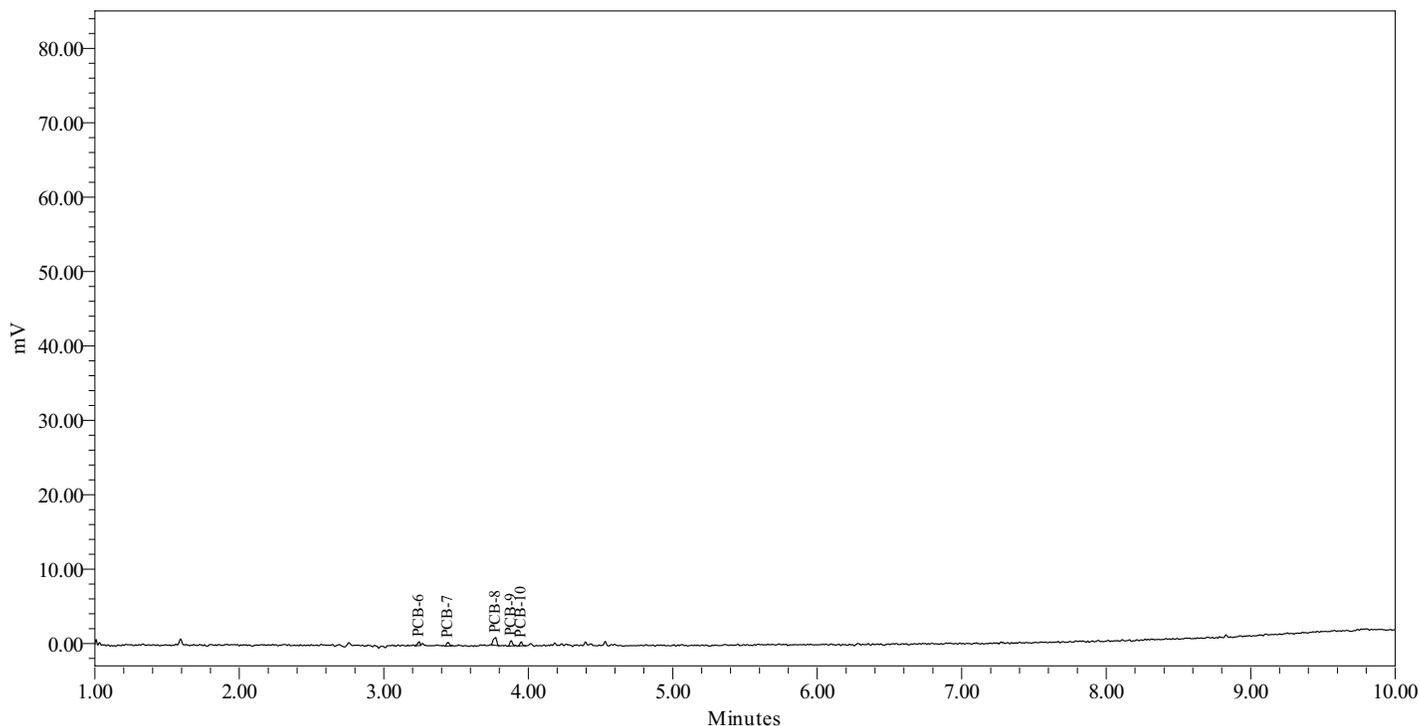
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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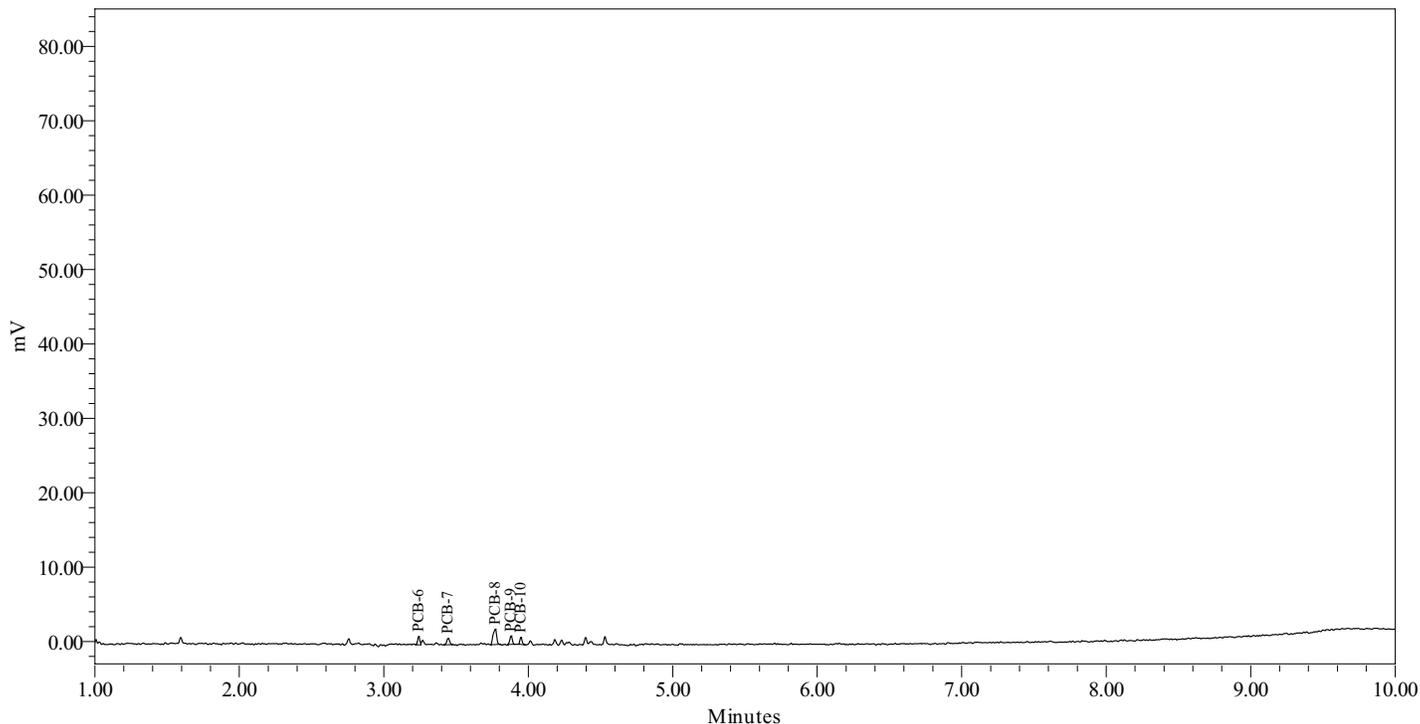
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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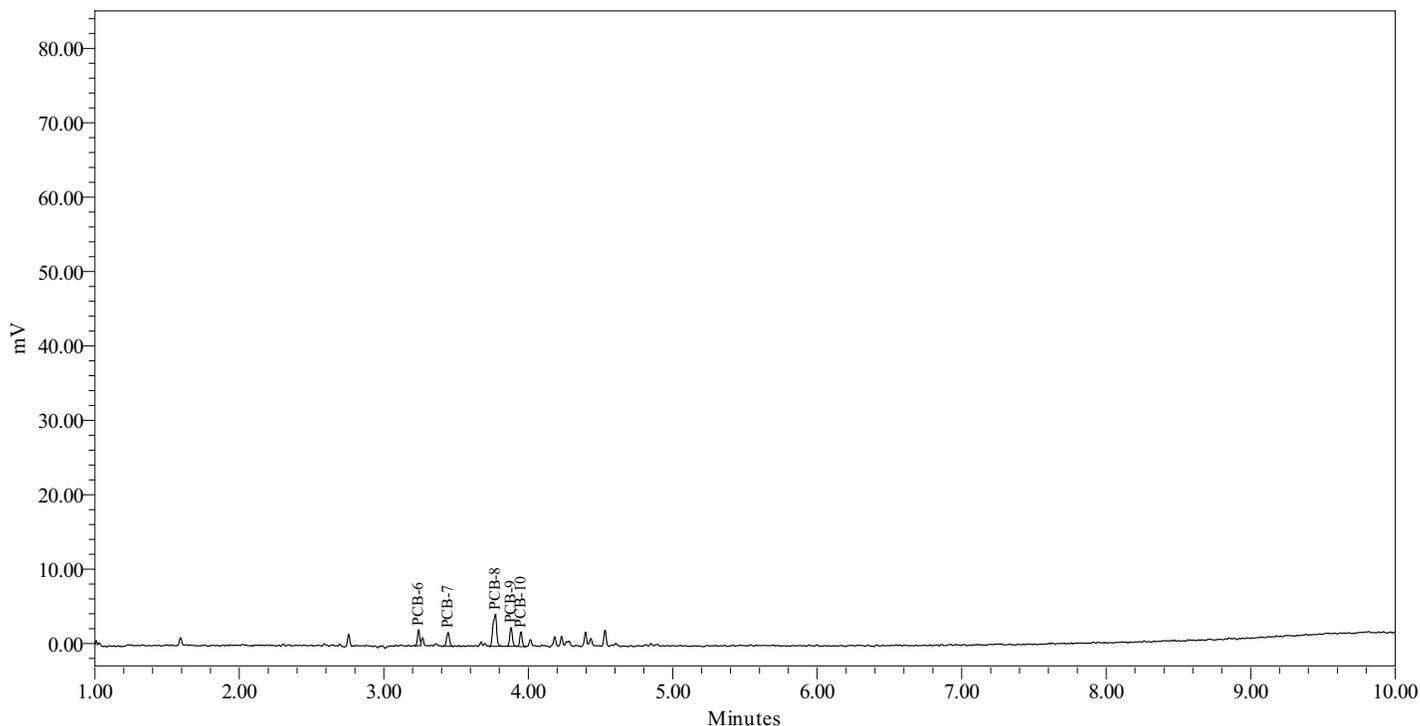
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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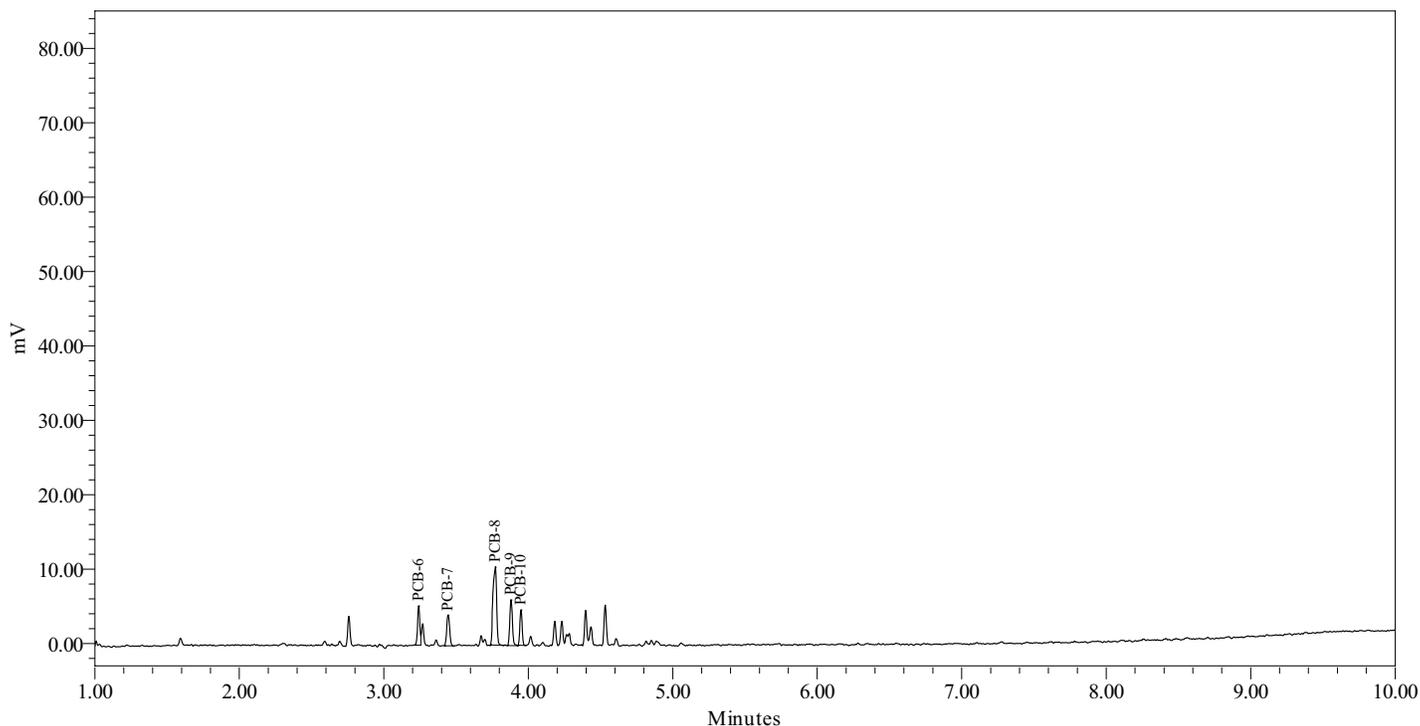
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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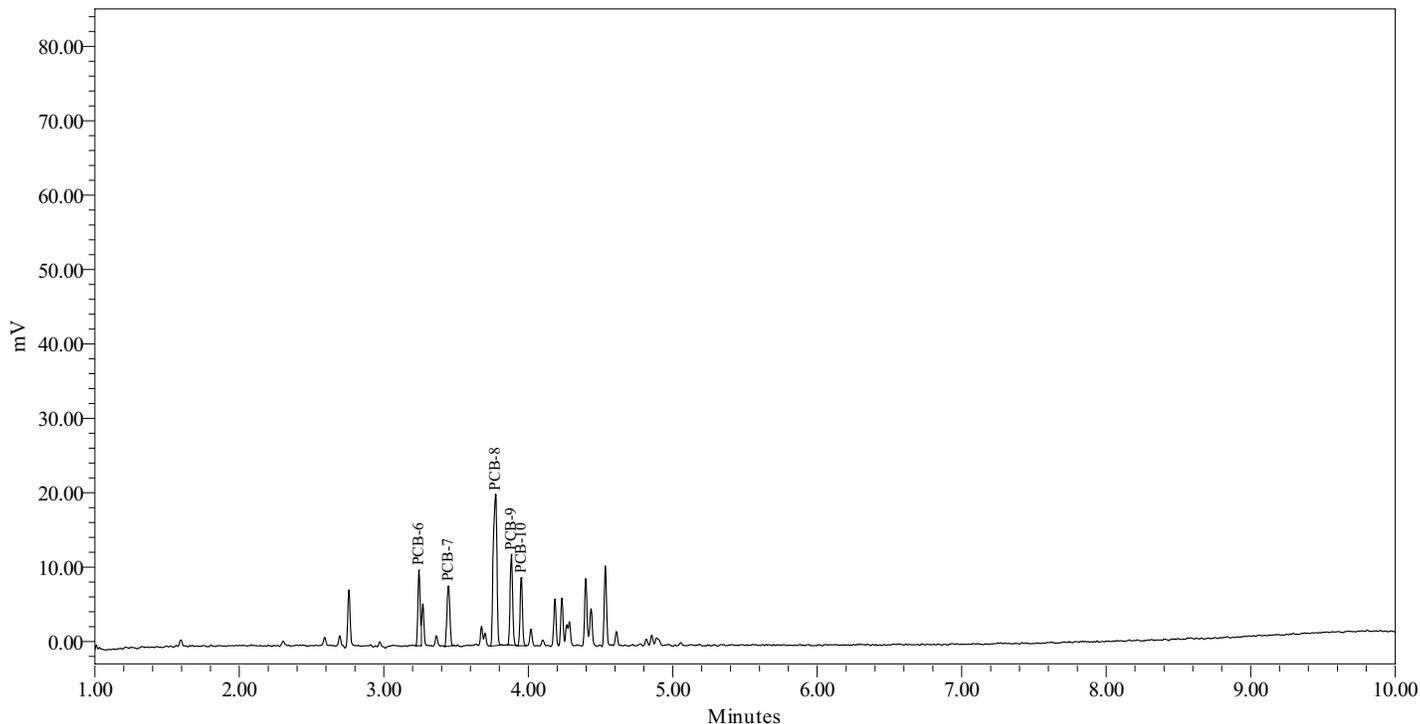
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 11381         |
| 2 PCB-7   | 3.447          | bb               | 11368         |
| 3 PCB-8   | 3.773          | bb               | 35910         |
| 4 PCB-9   | 3.883          | bB               | 14405         |
| 5 PCB-10  | 3.951          | Bb               | 10008         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 83072               | 100.000              |
| 2 A1232     | 71691               |                      |
| 3 A1232-8/9 | 21376               |                      |
| 4 A1242     | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

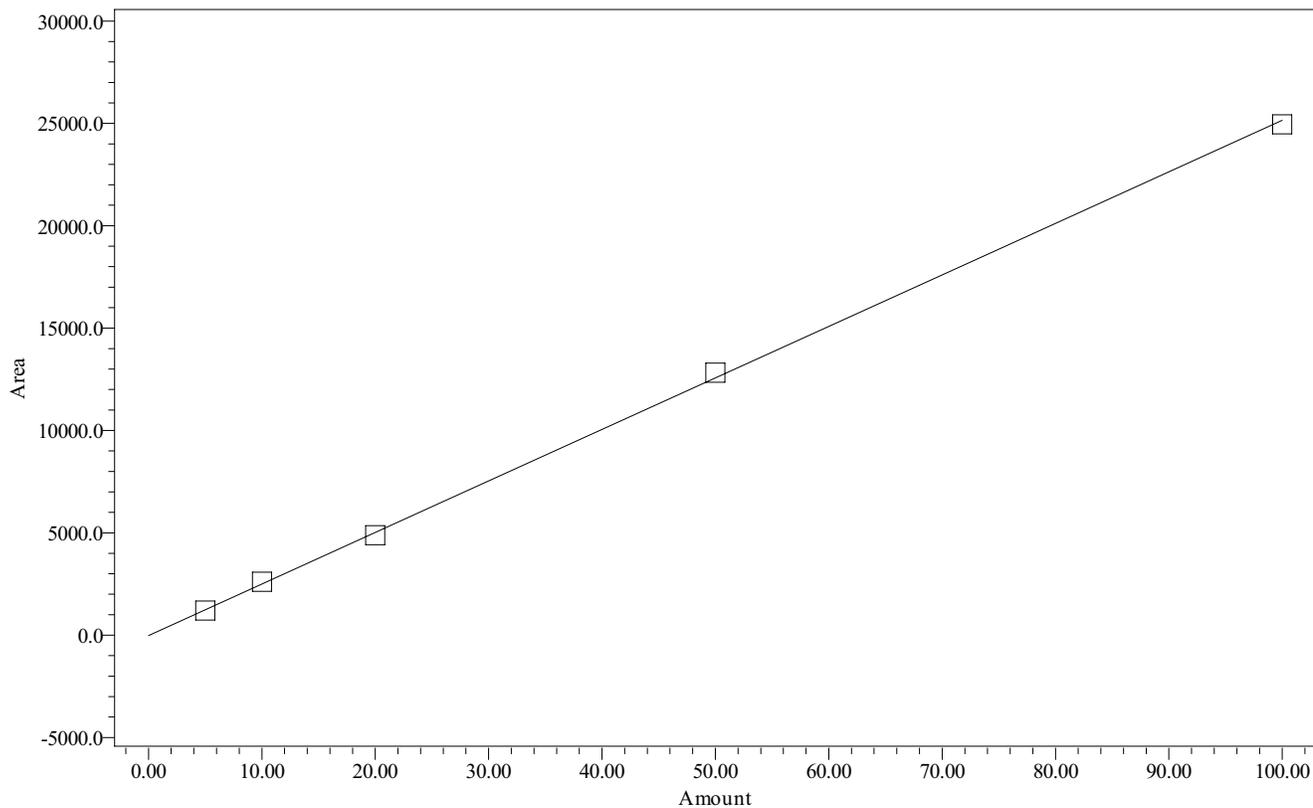
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

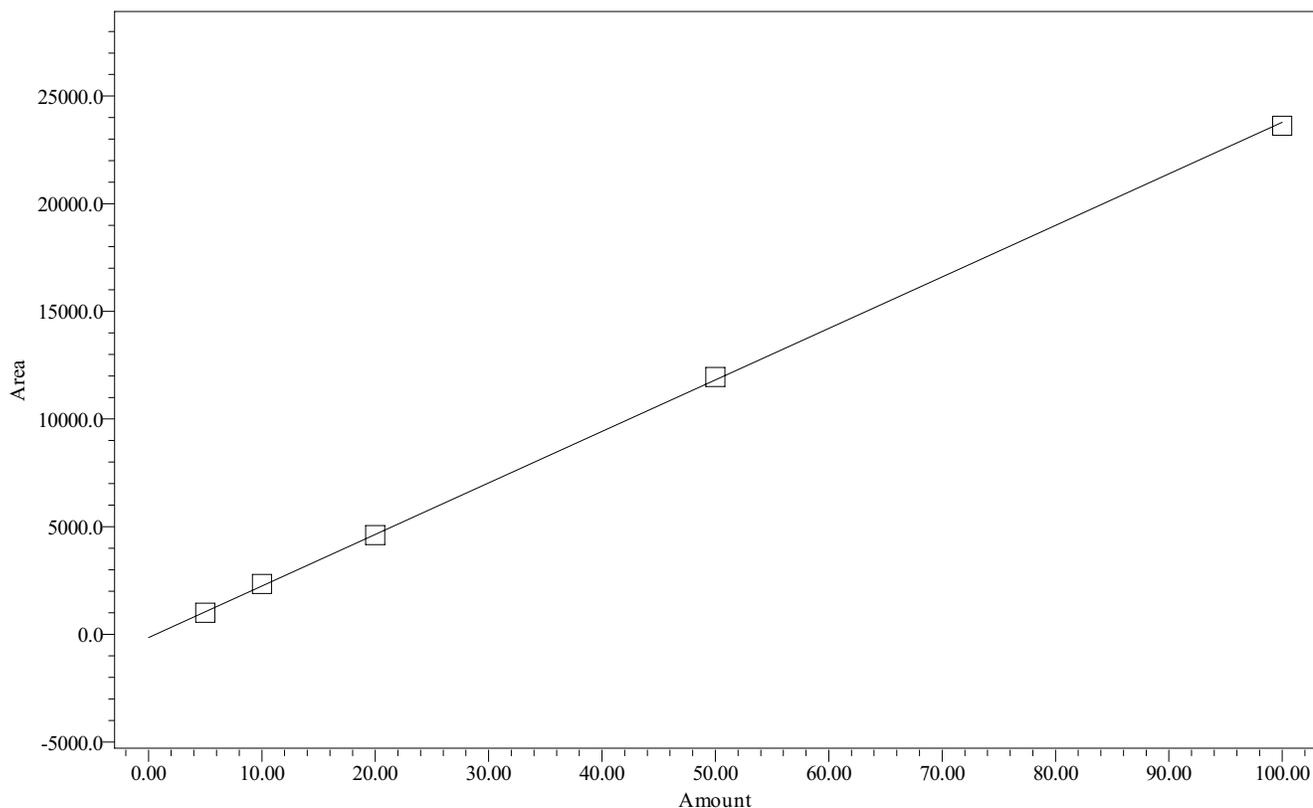
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

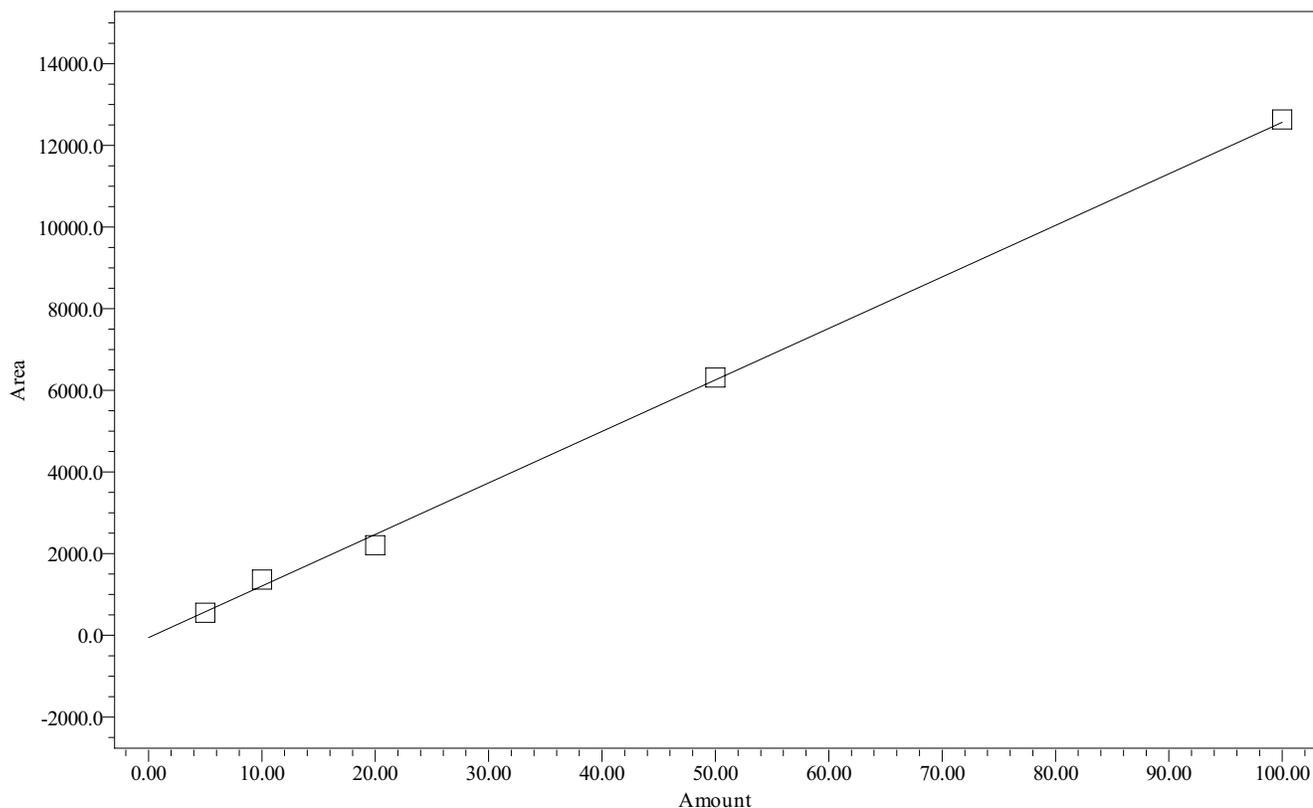
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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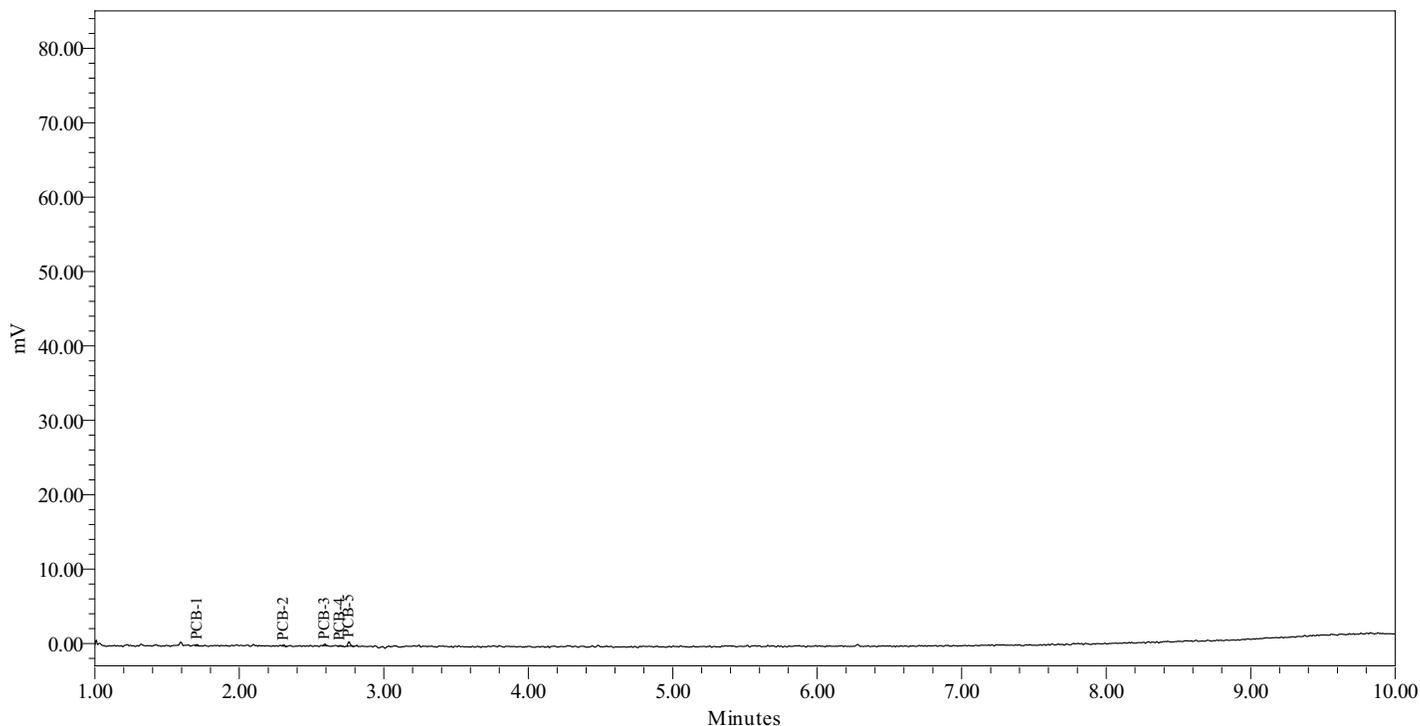
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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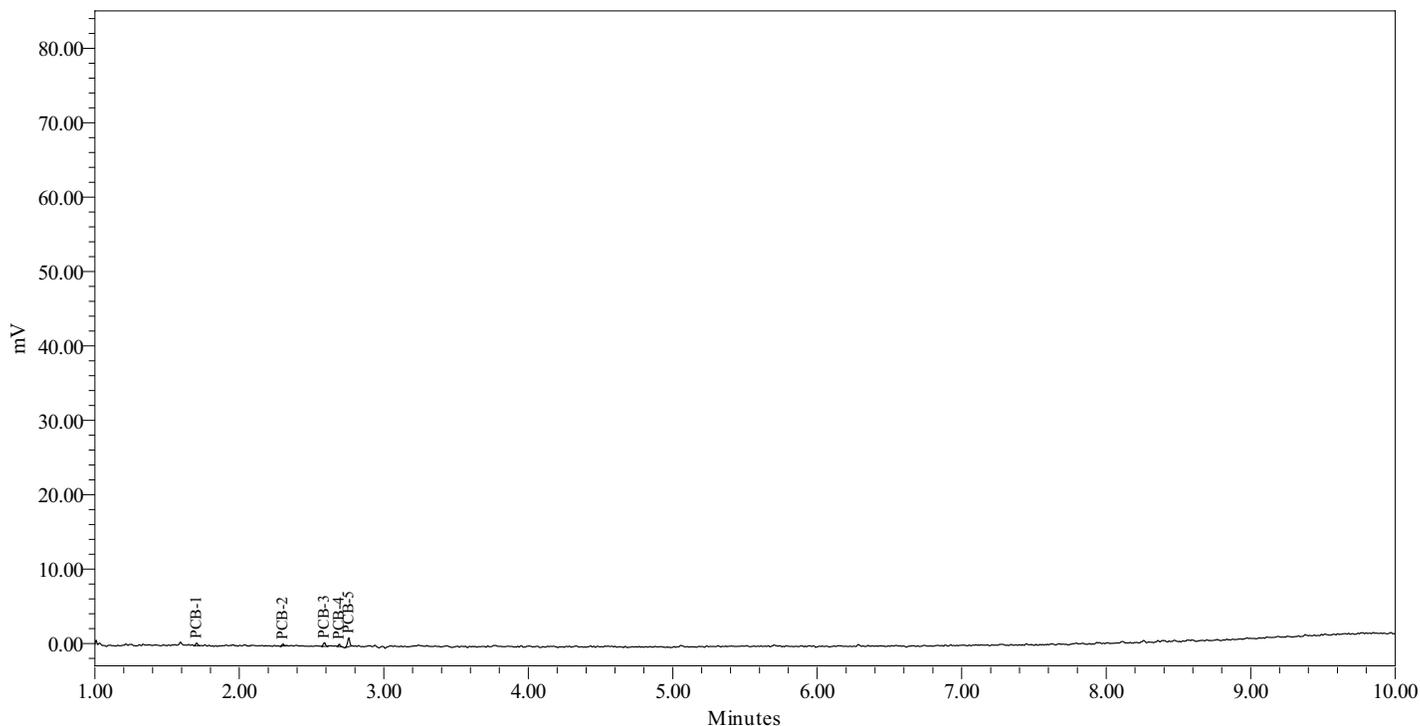
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.703          | bb               | 323           |
| 2 | PCB-2     | 2.301          | bb               | 272           |
| 3 | PCB-3     | 2.588          | bb               | 517           |
| 4 | PCB-4     | 2.691          | bb               | 256           |
| 5 | PCB-5     | 2.757          | bb               | 1247          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1221      | 2615                | 10.000               |
| 2 | A1221-2    | 2343                | 10.000               |
| 3 | A1221-5    | 1368                | 10.000               |
| 4 | A1232      | 1247                |                      |
| 5 | A1232-8/9  | 1247                |                      |



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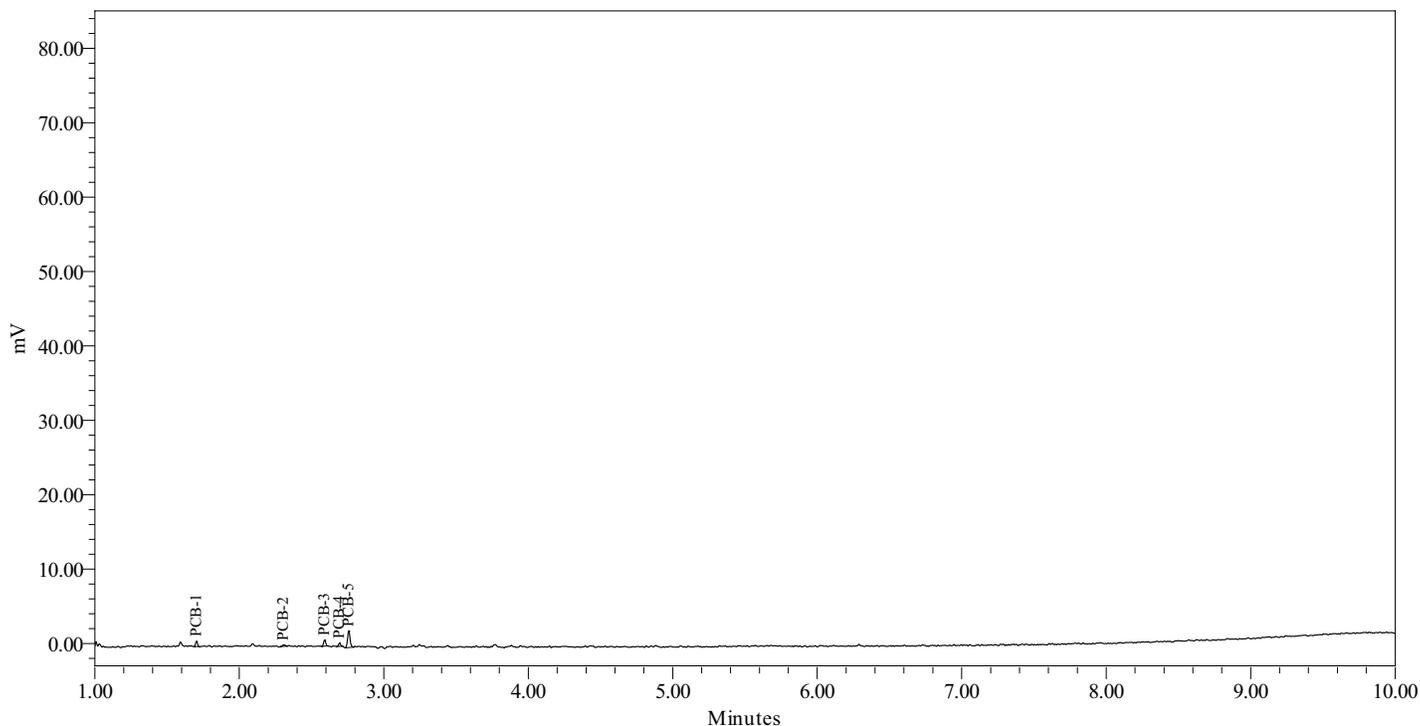
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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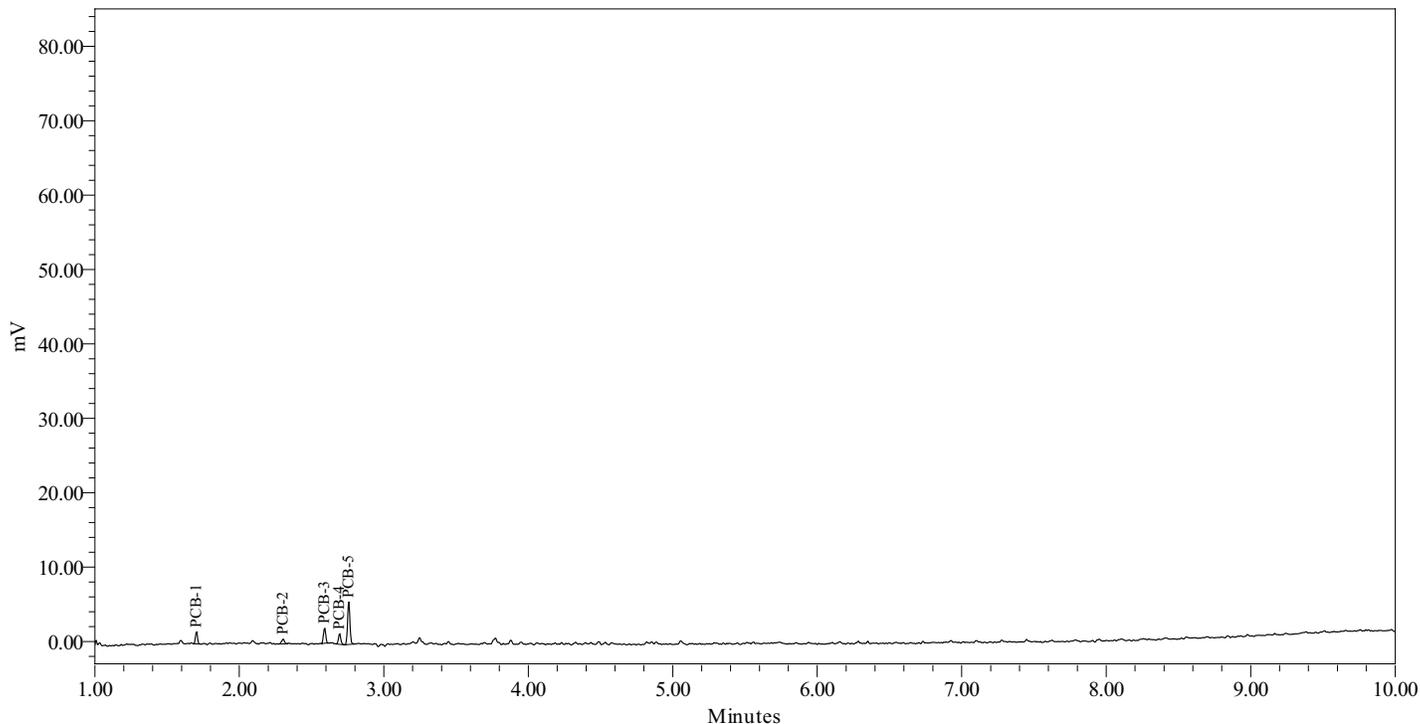
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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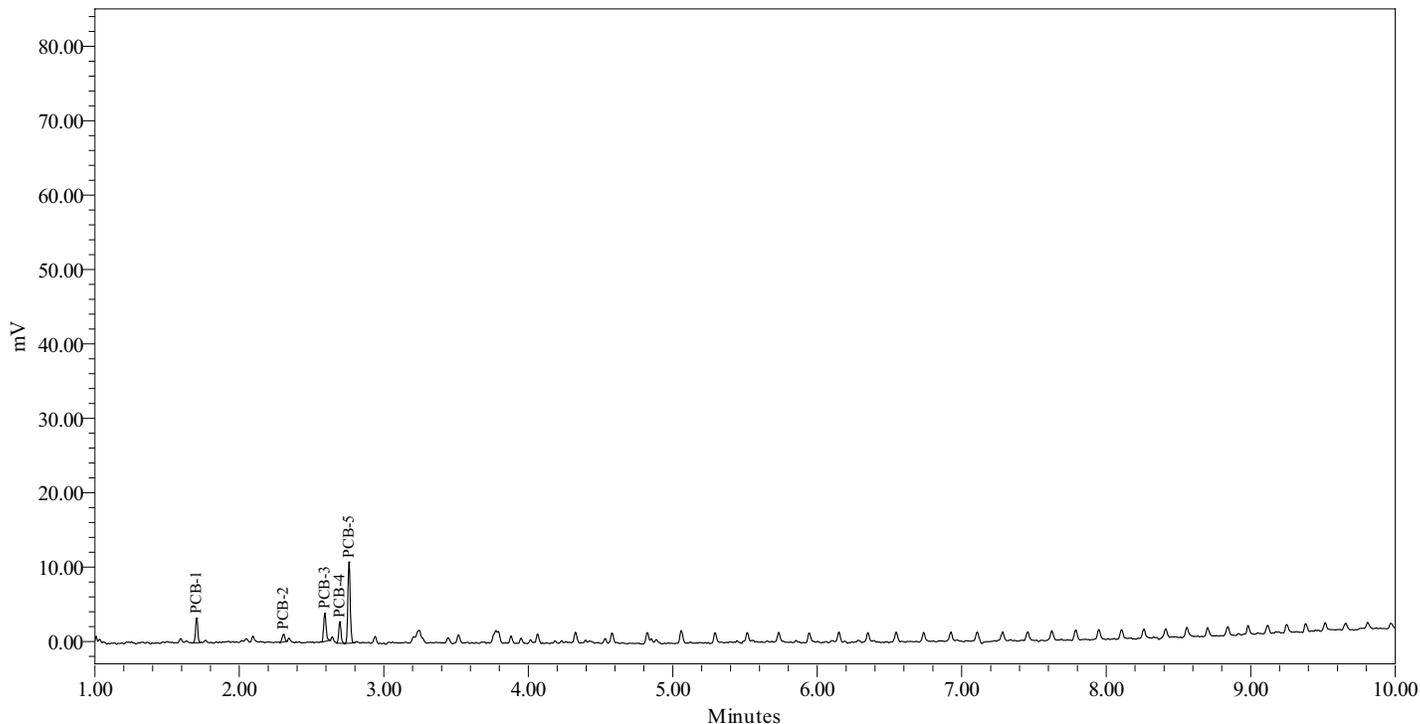
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

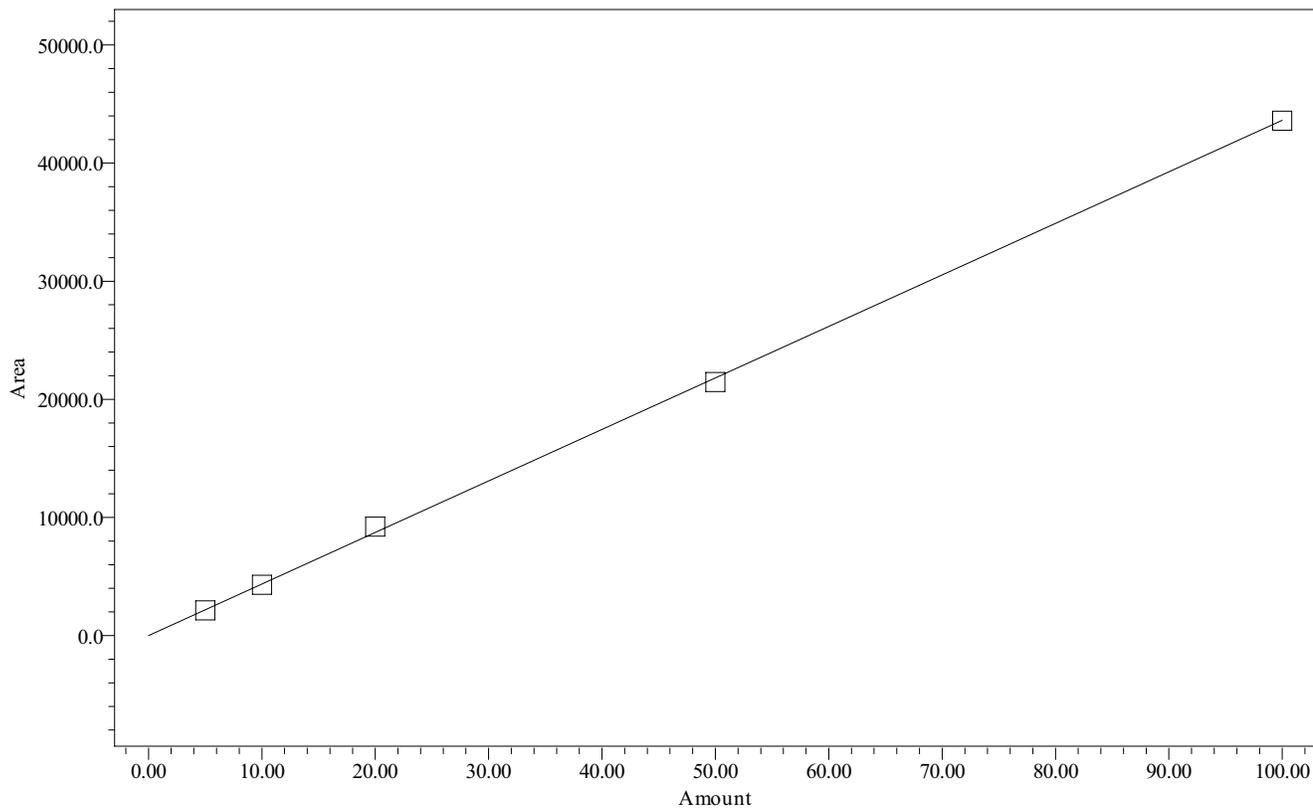
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

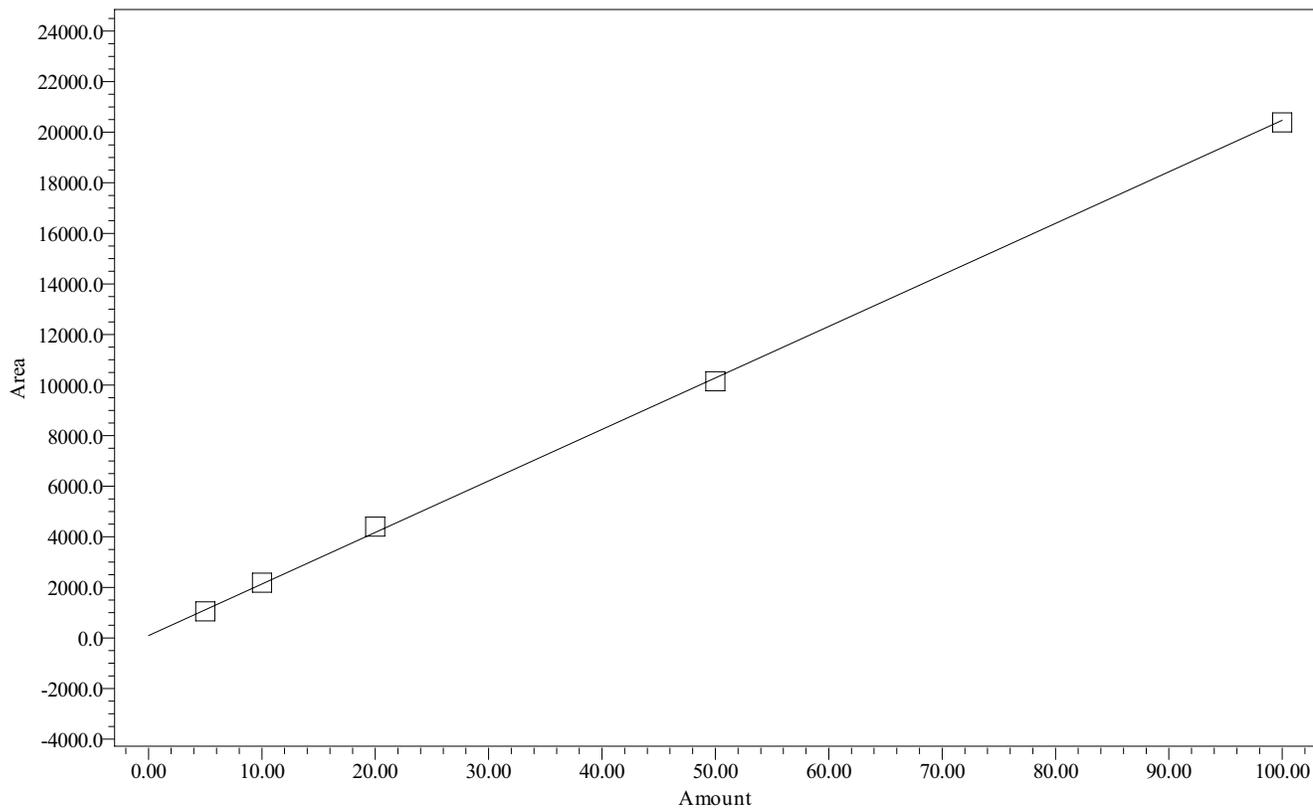
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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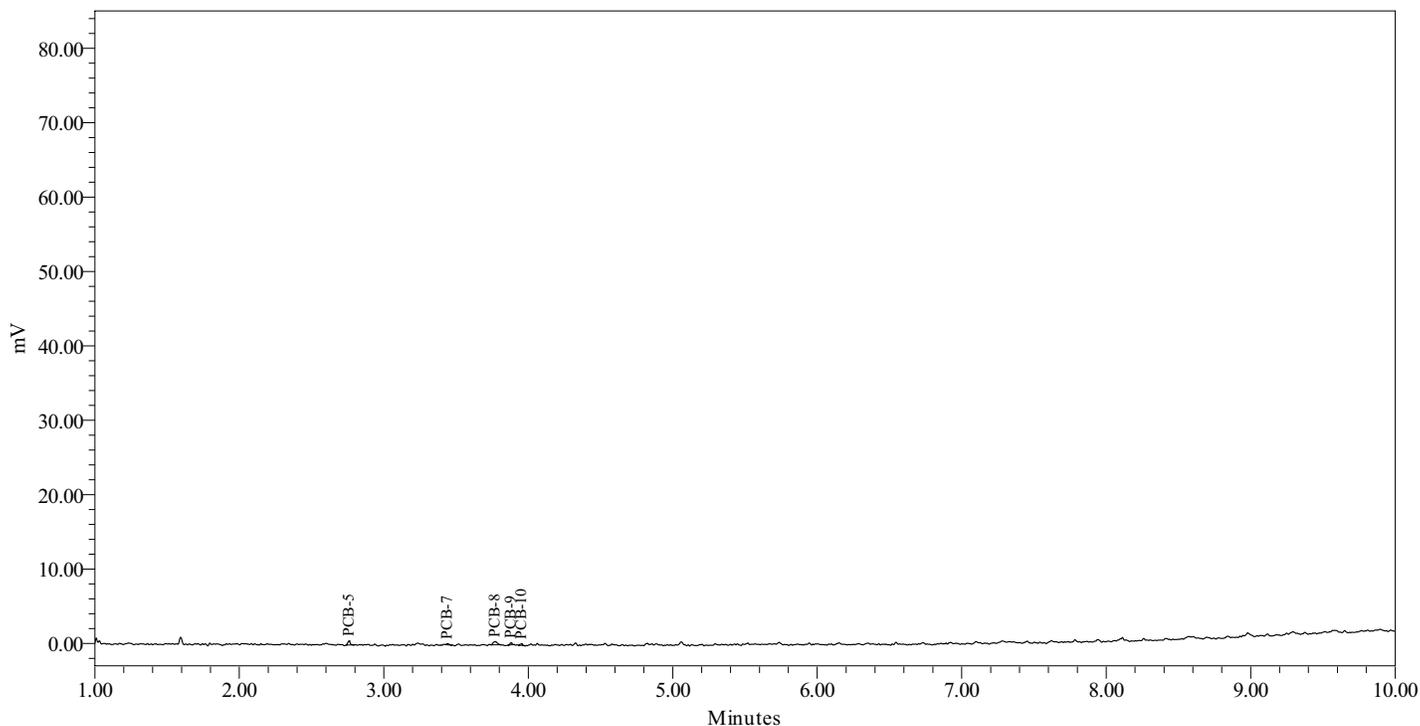
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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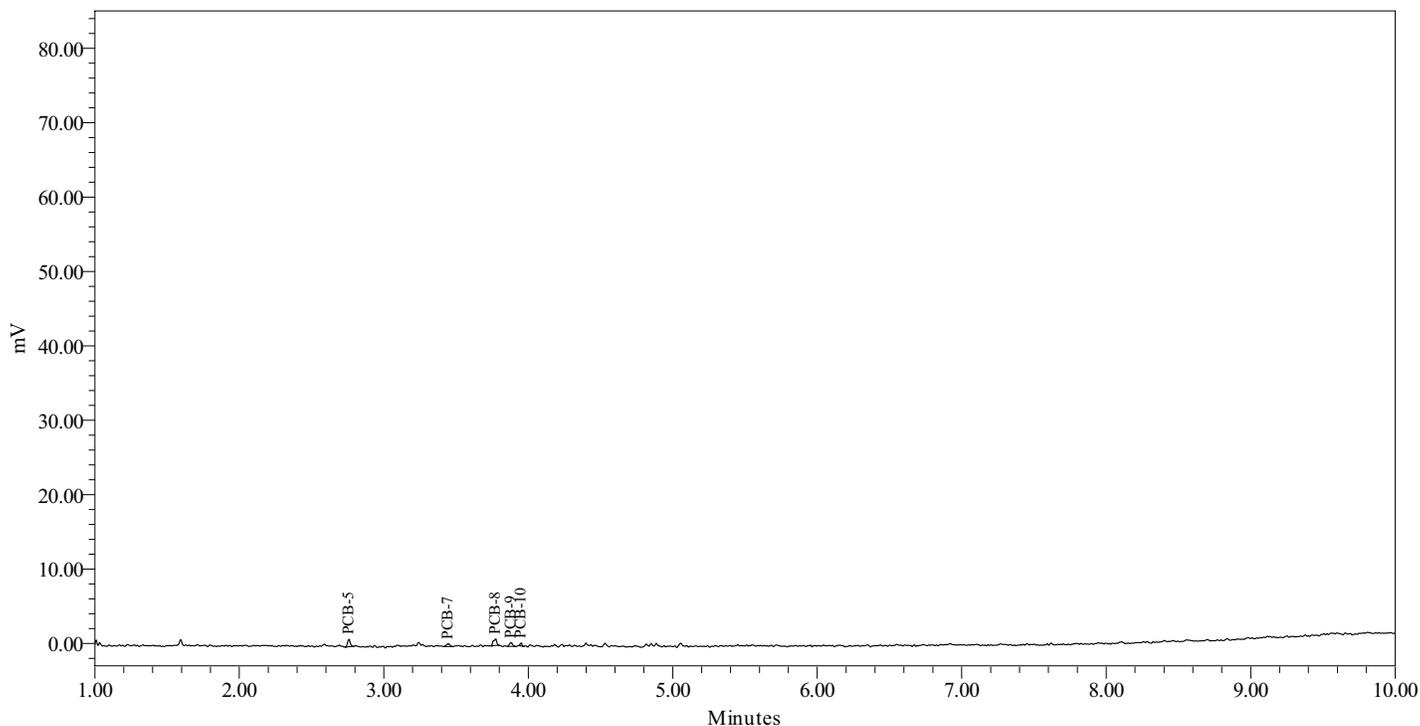
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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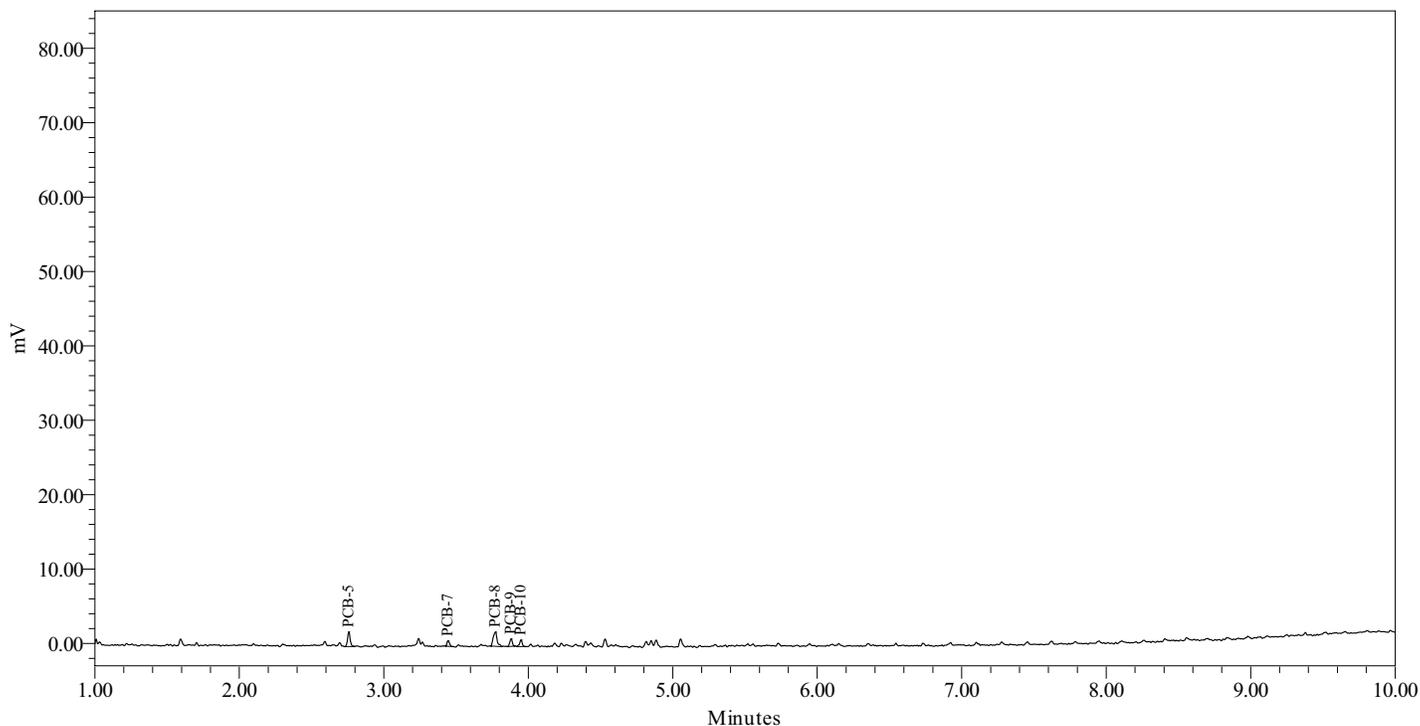
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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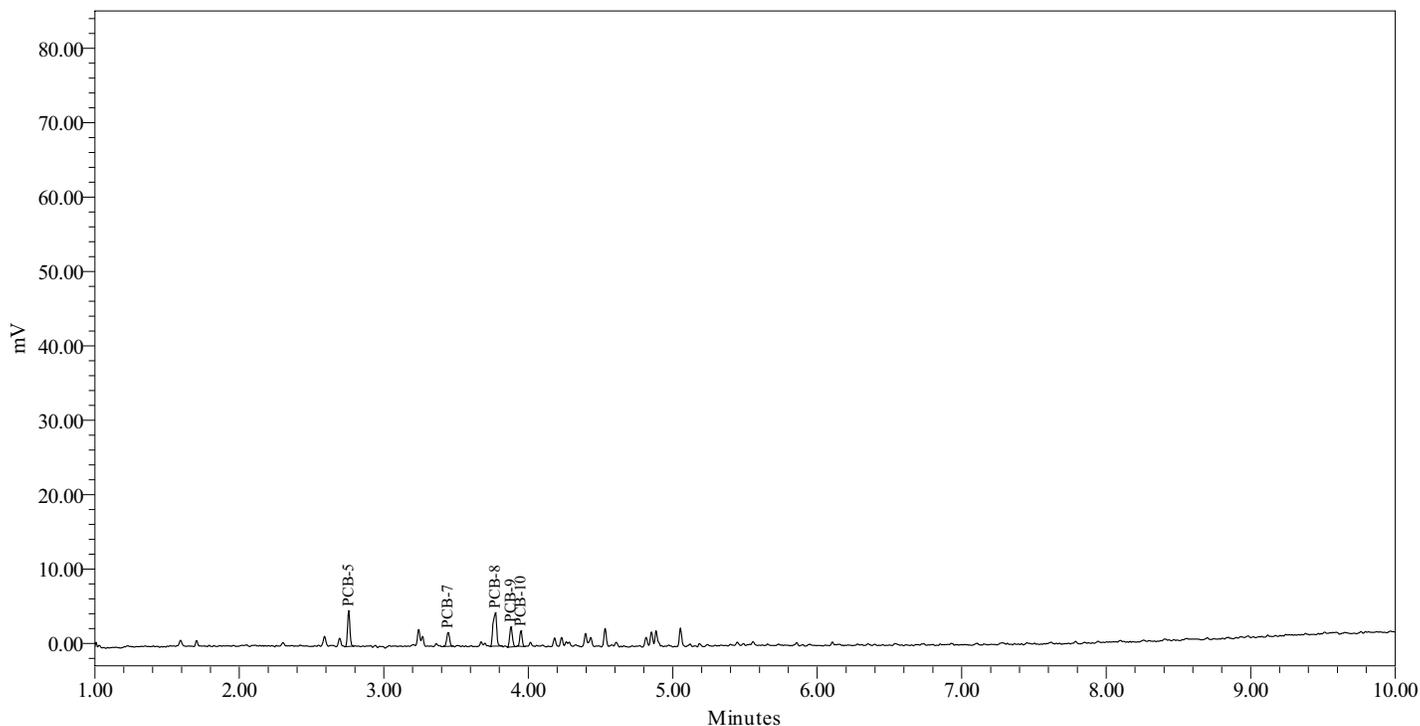
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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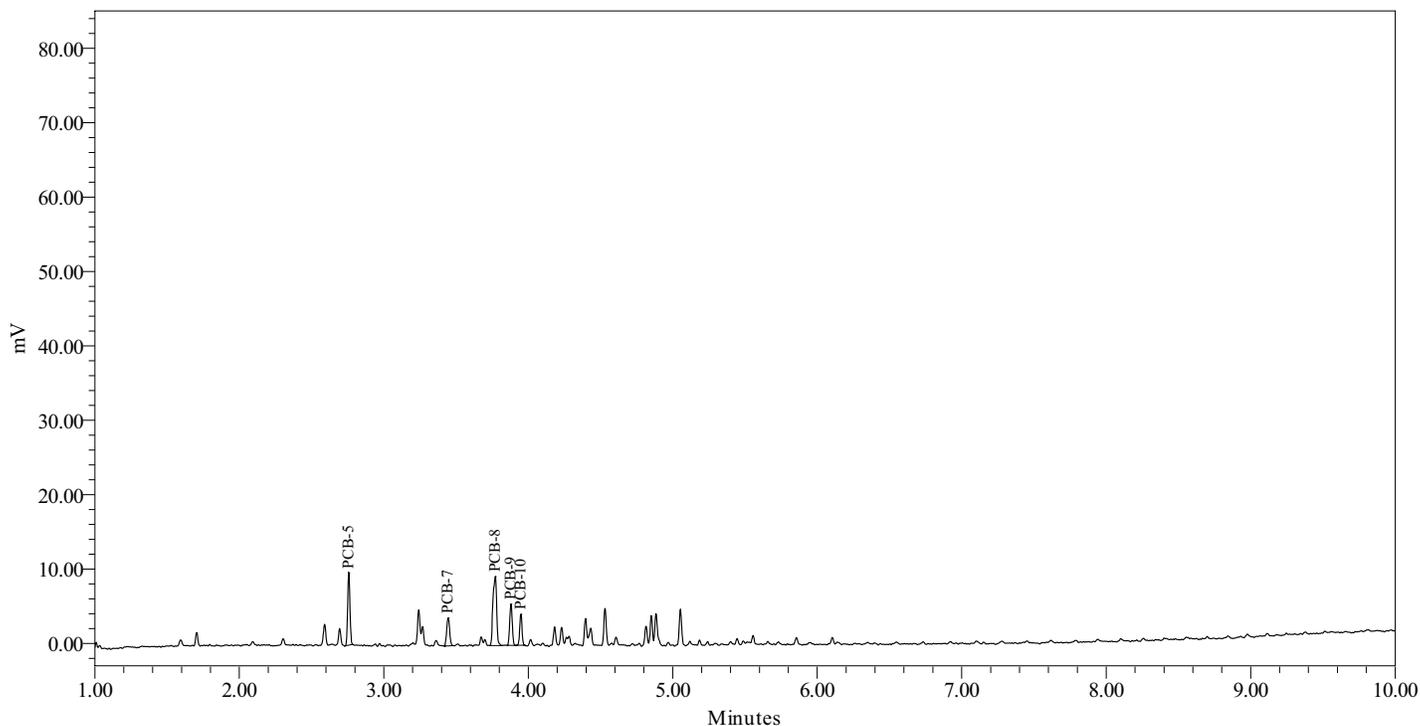
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

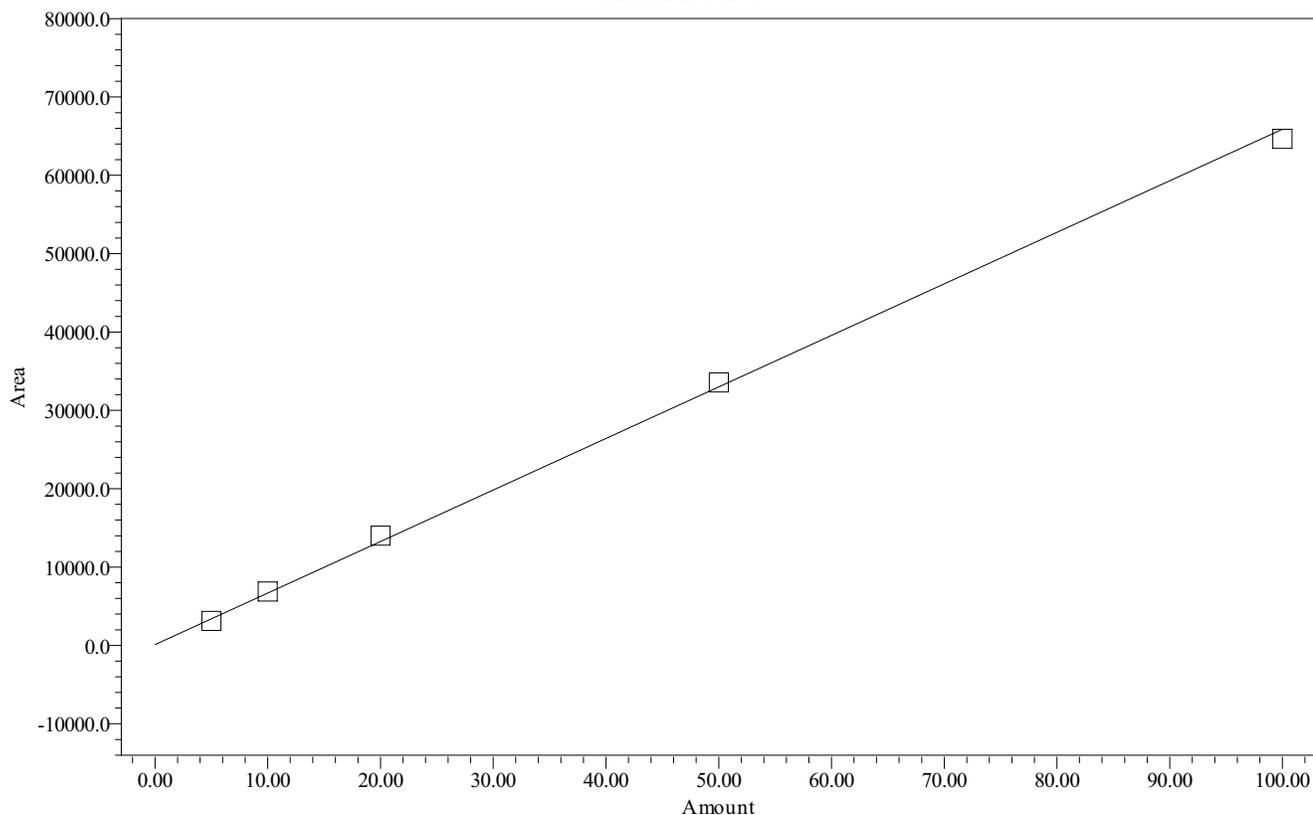
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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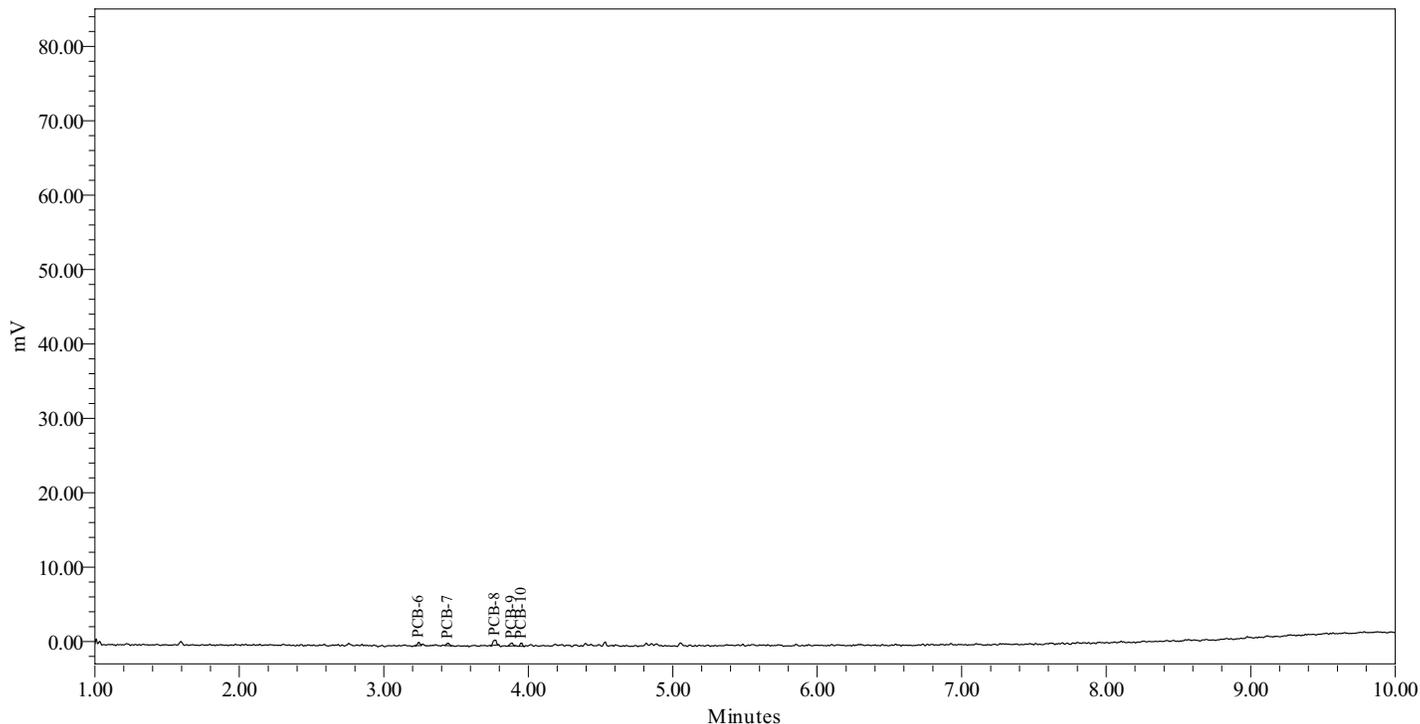
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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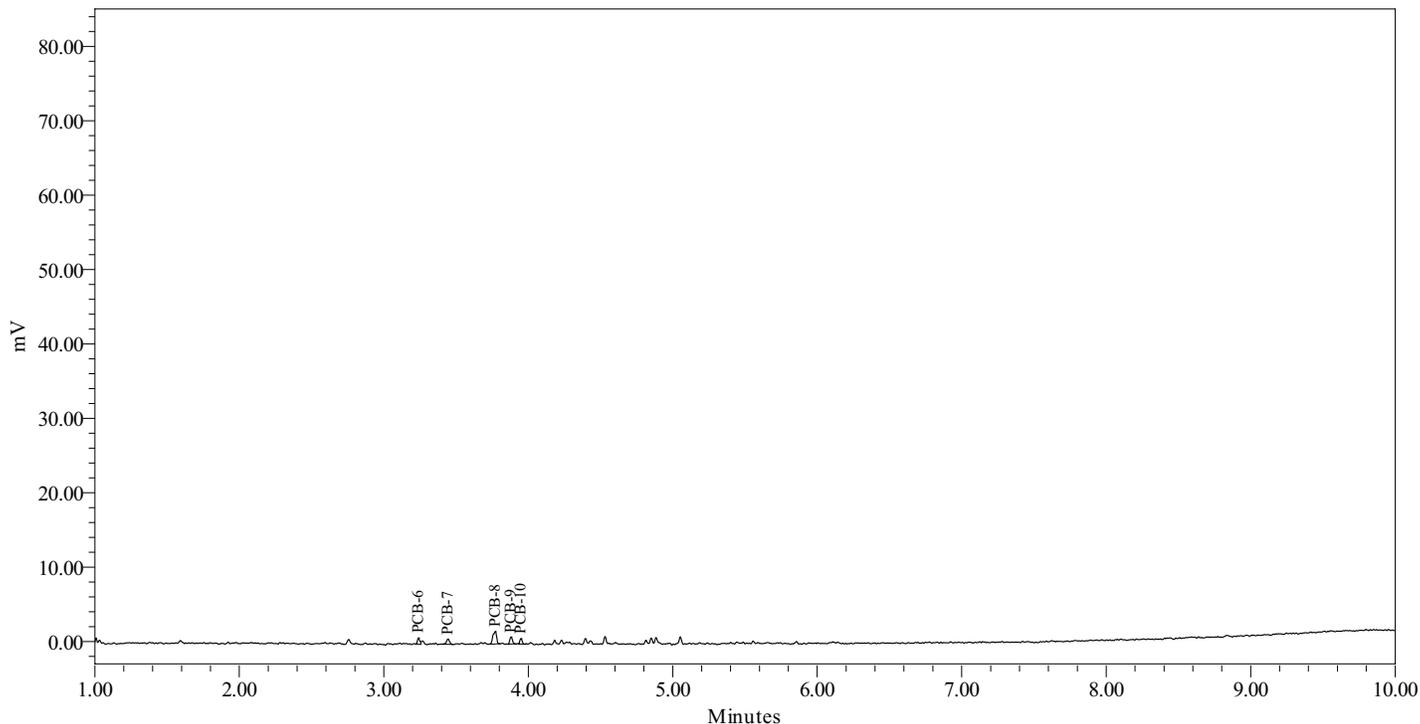
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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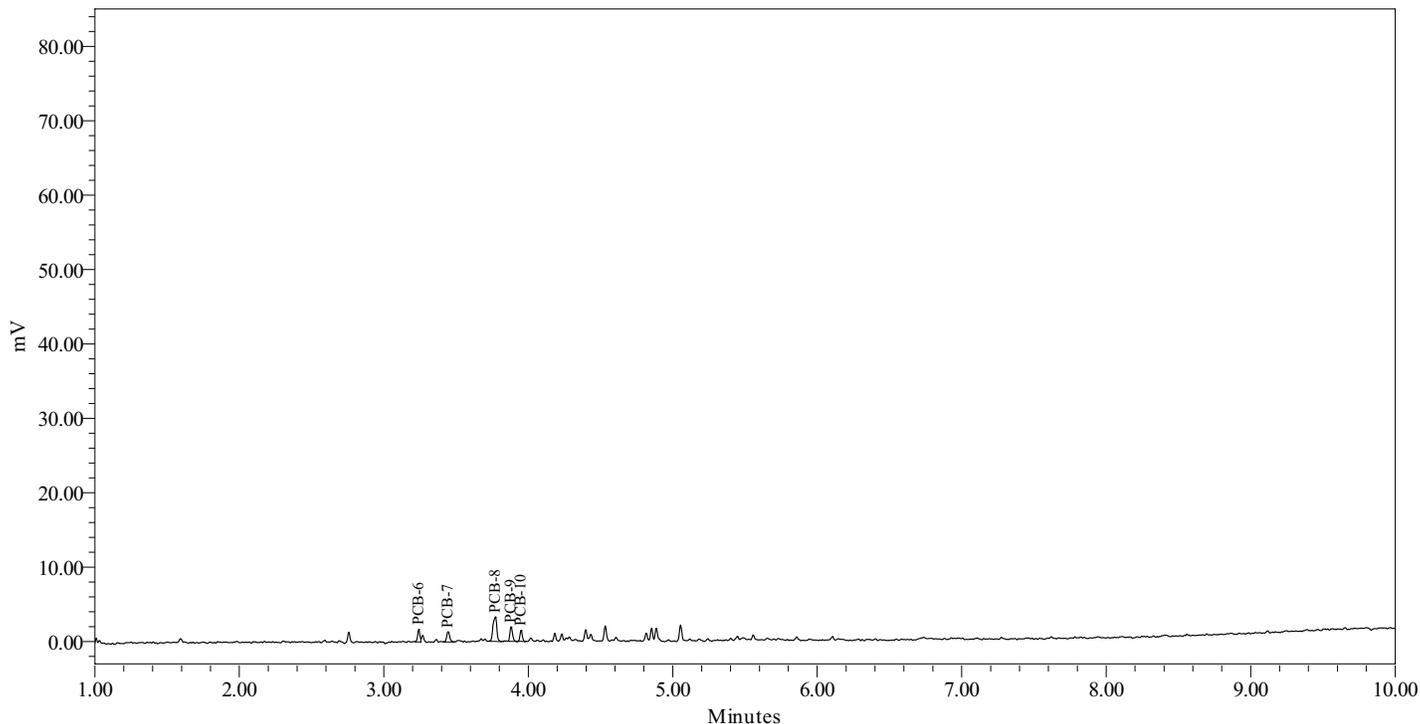
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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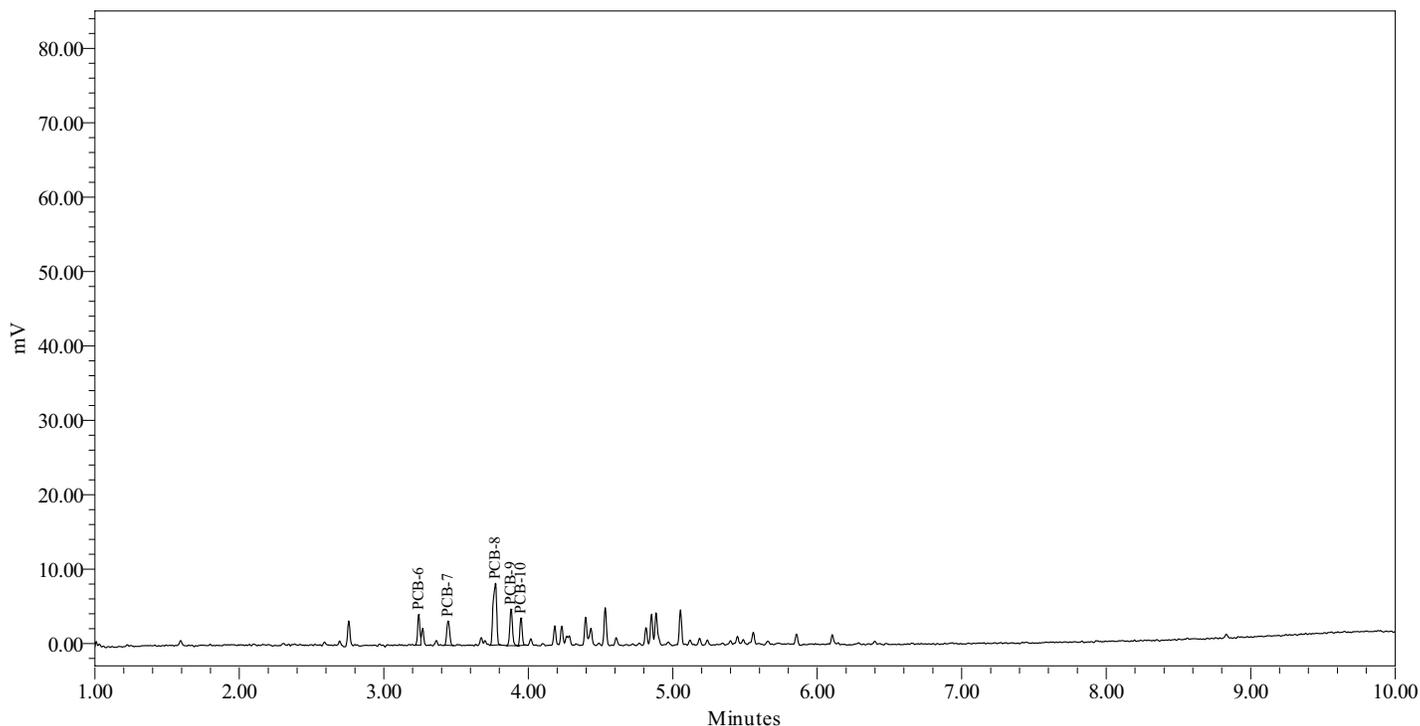
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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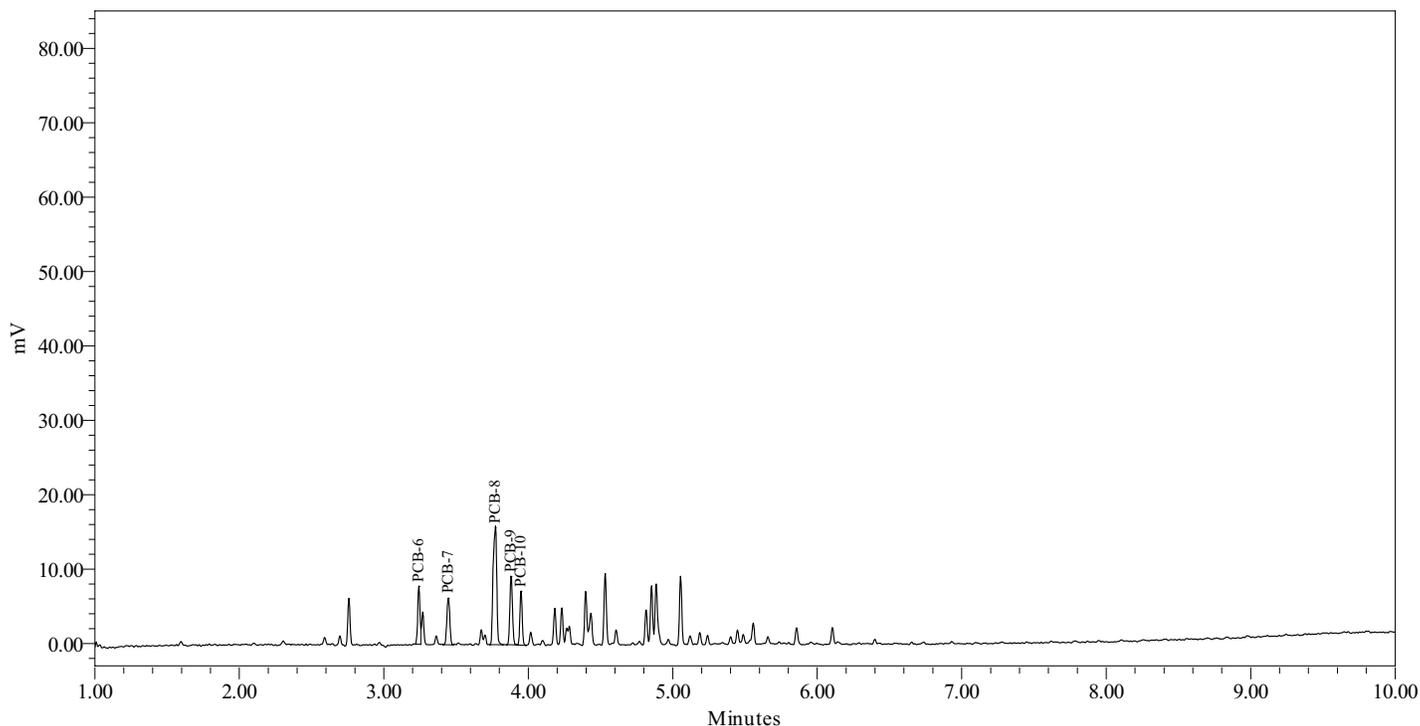
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

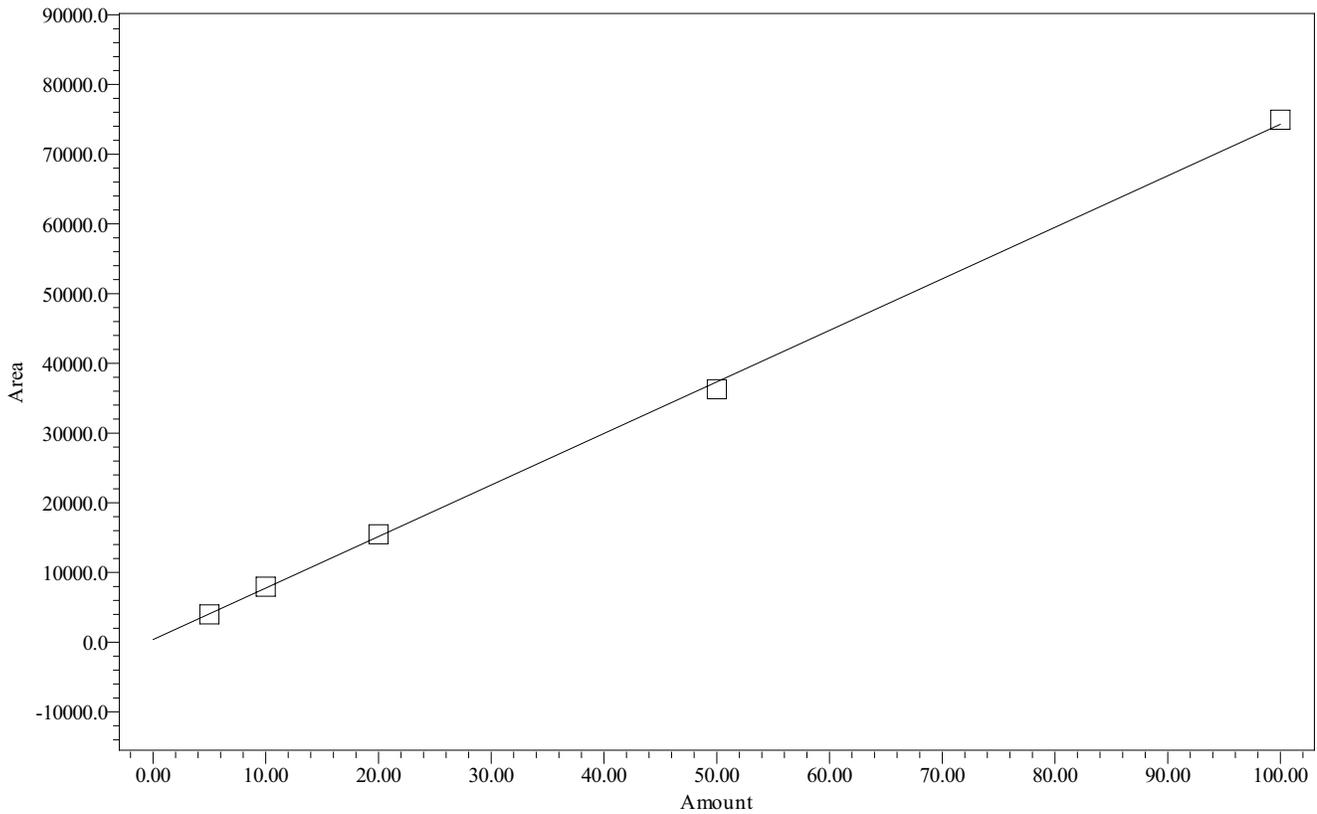
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248                    | Coefficient constant A:           | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

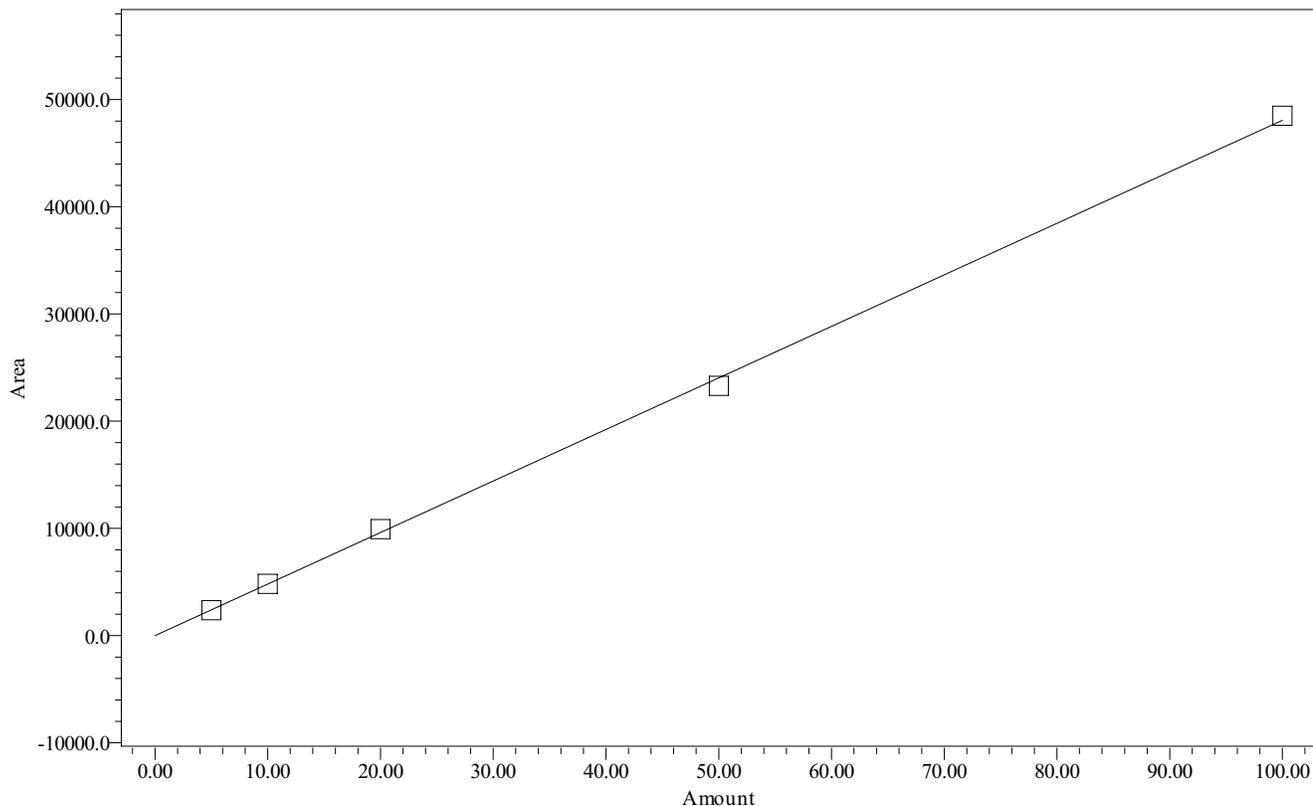
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

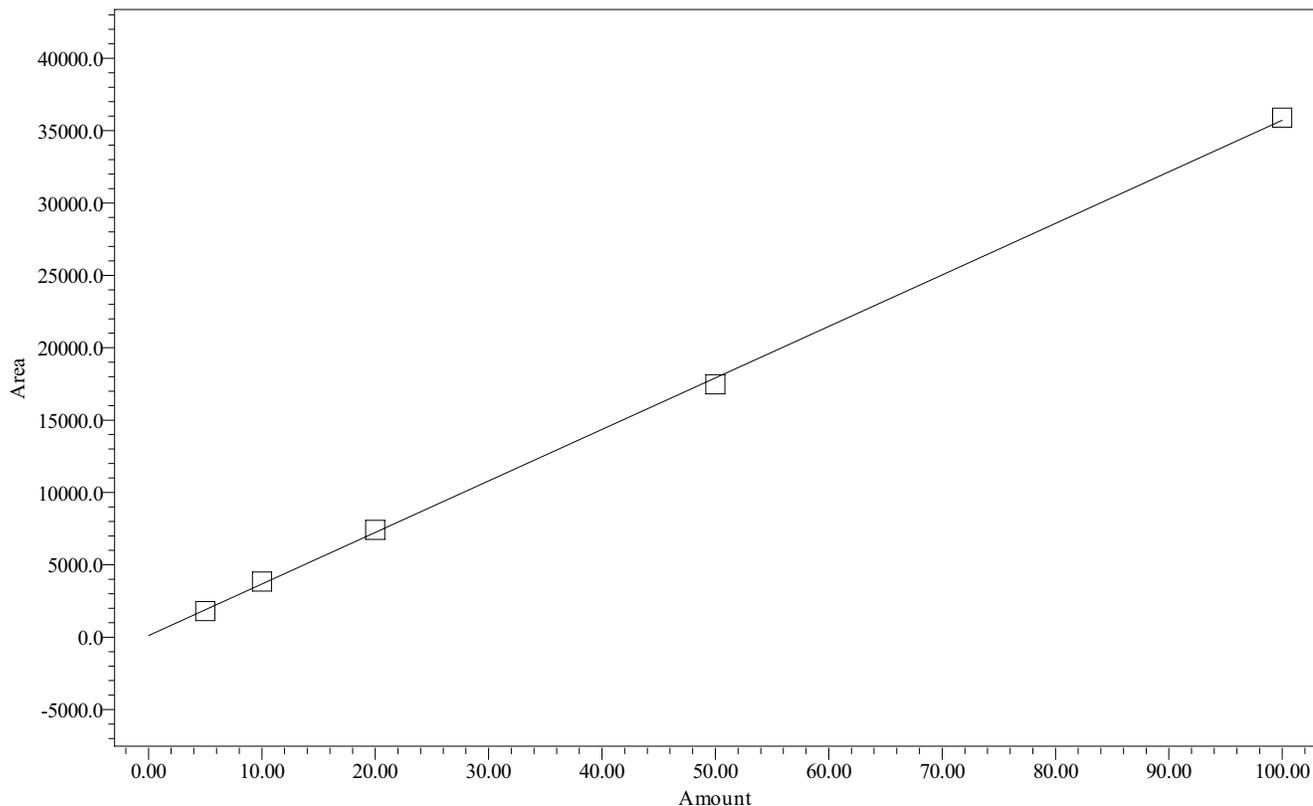
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00          | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00         | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00         | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00         | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00        | 35901    | 100.5       | 0.529       | No     | No     |

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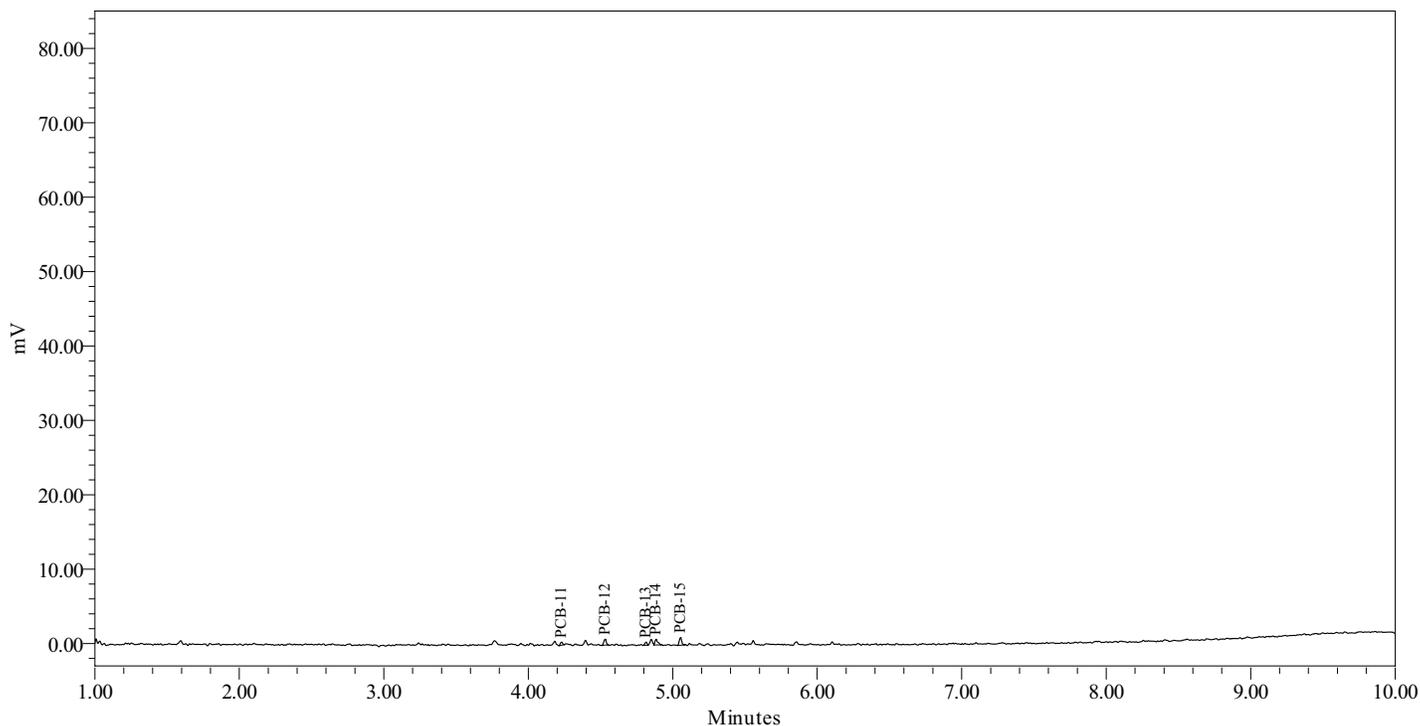
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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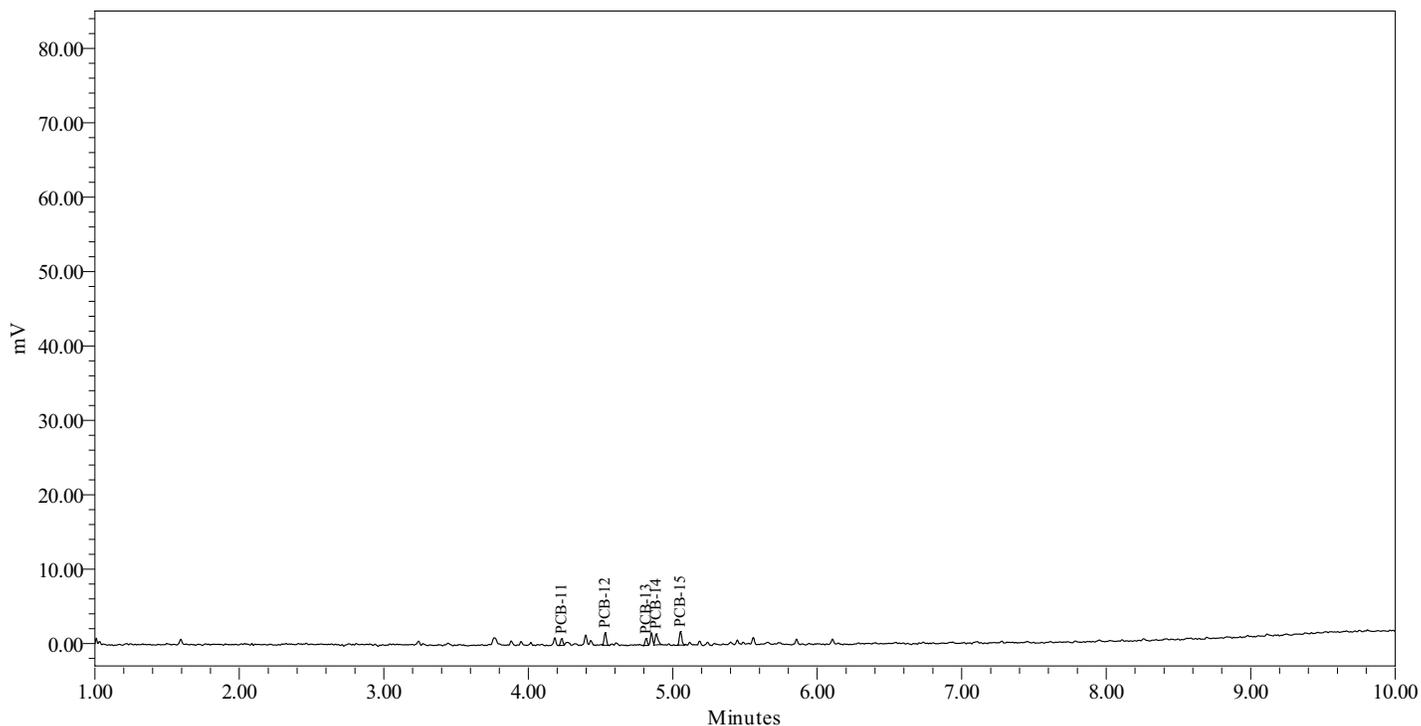
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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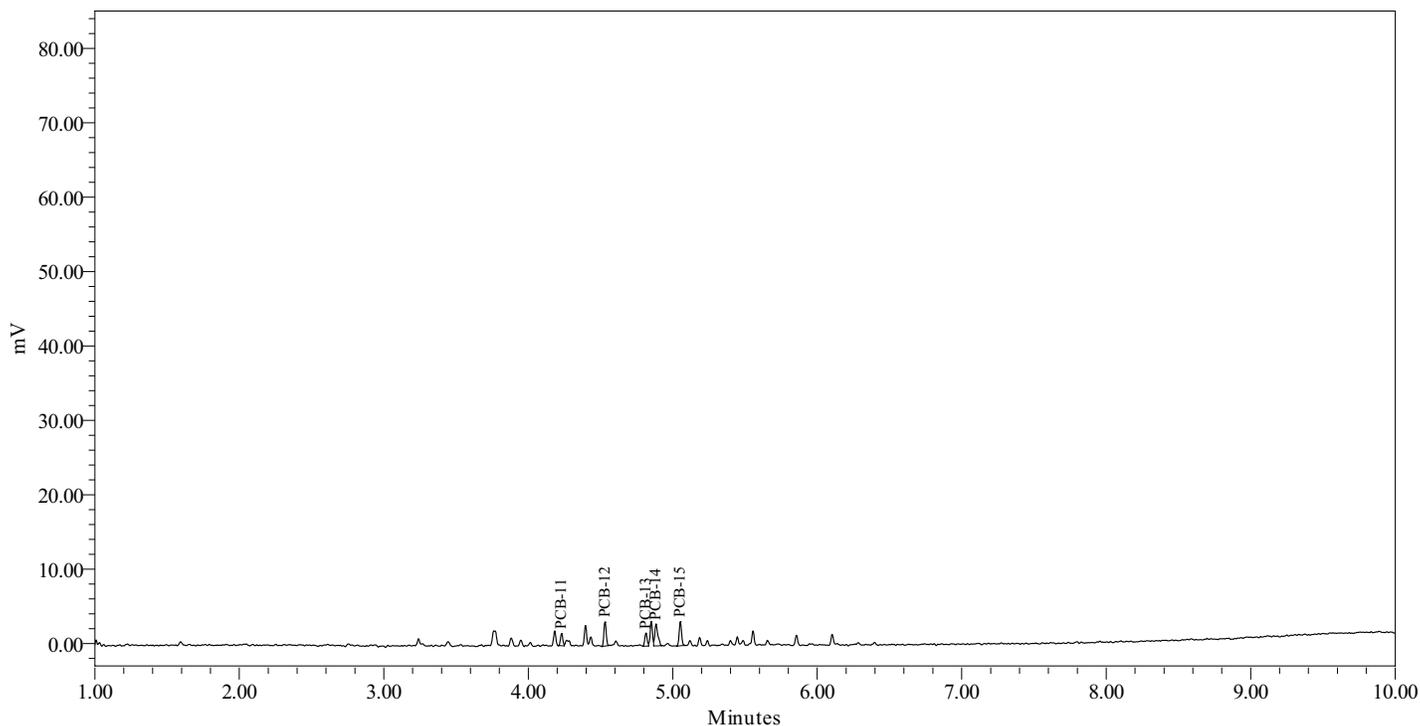
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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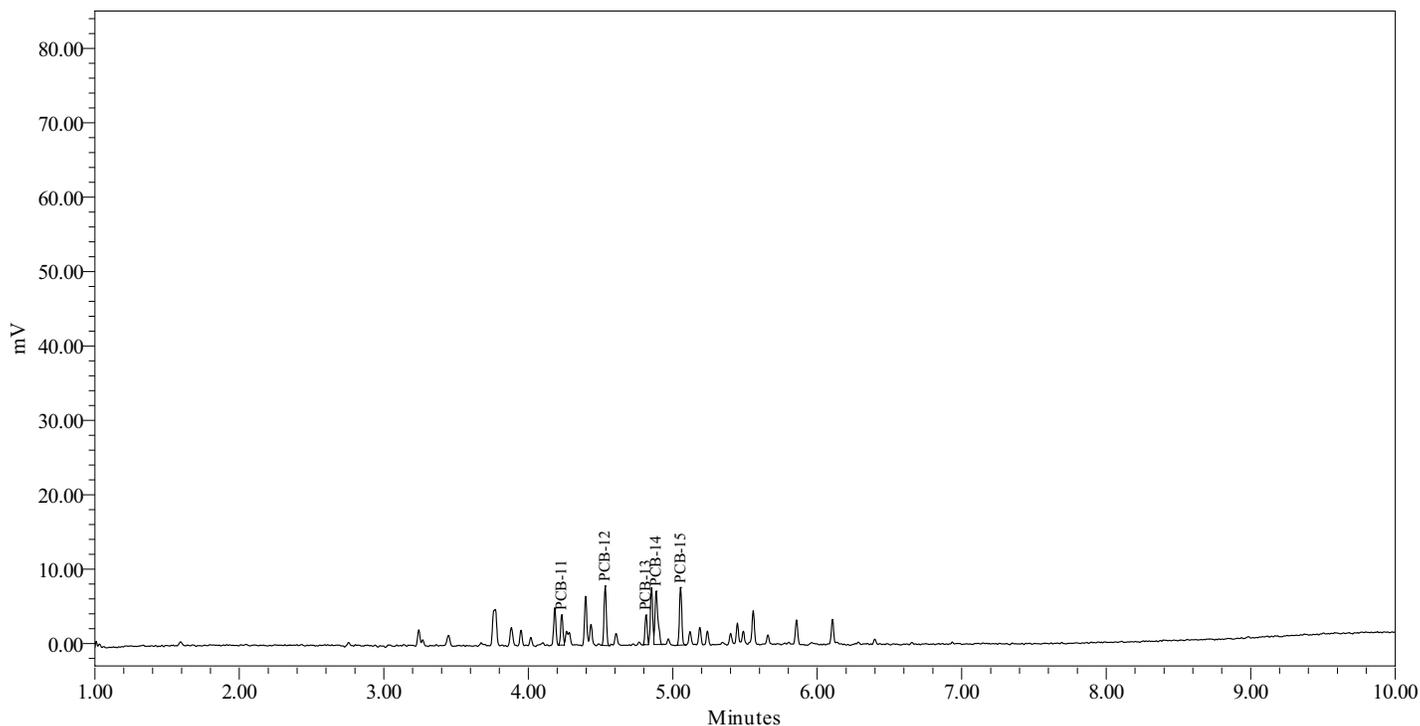
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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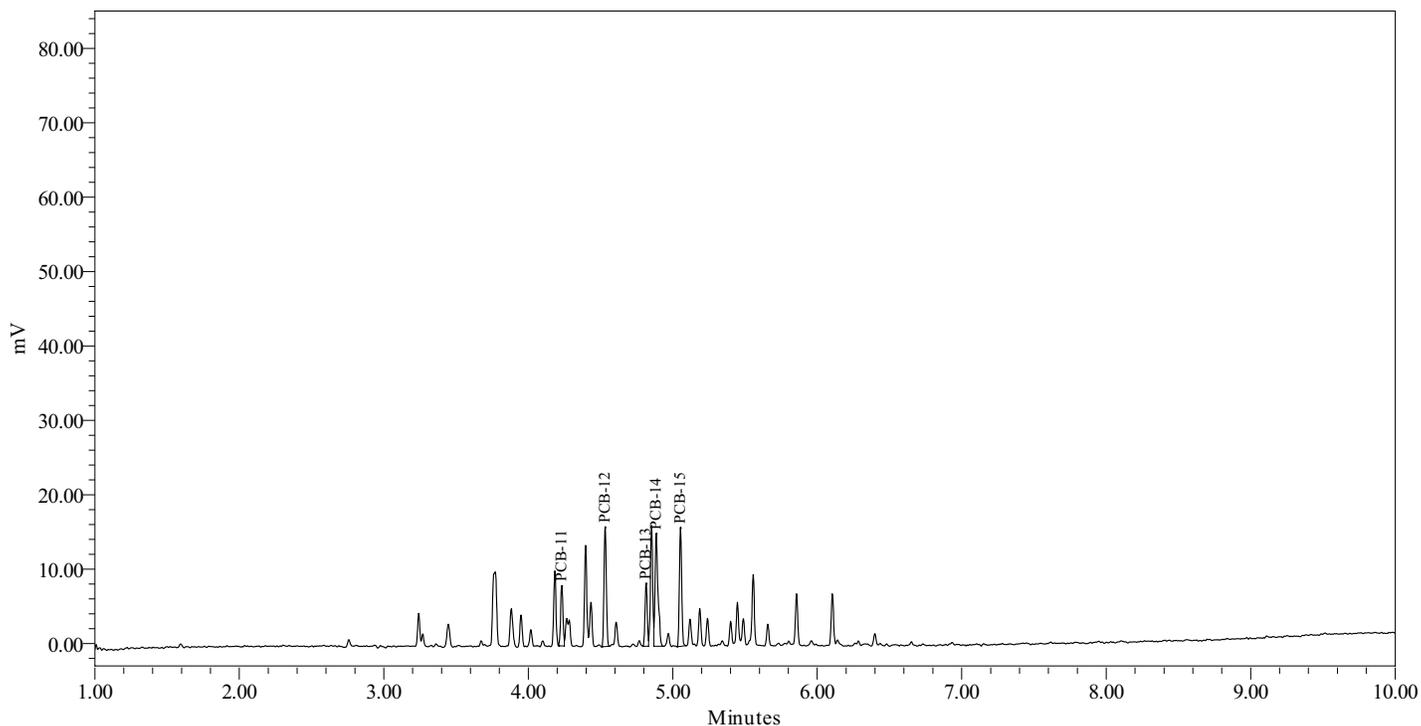
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

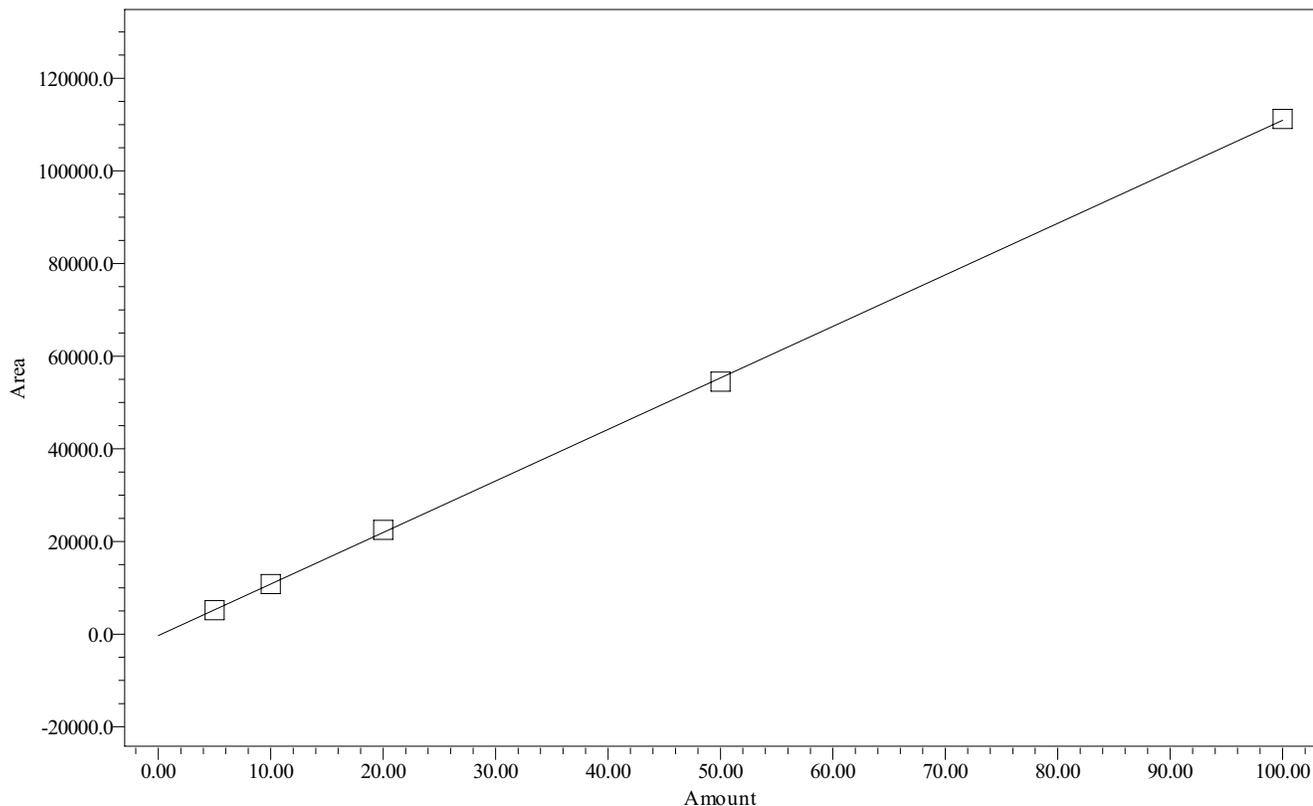
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

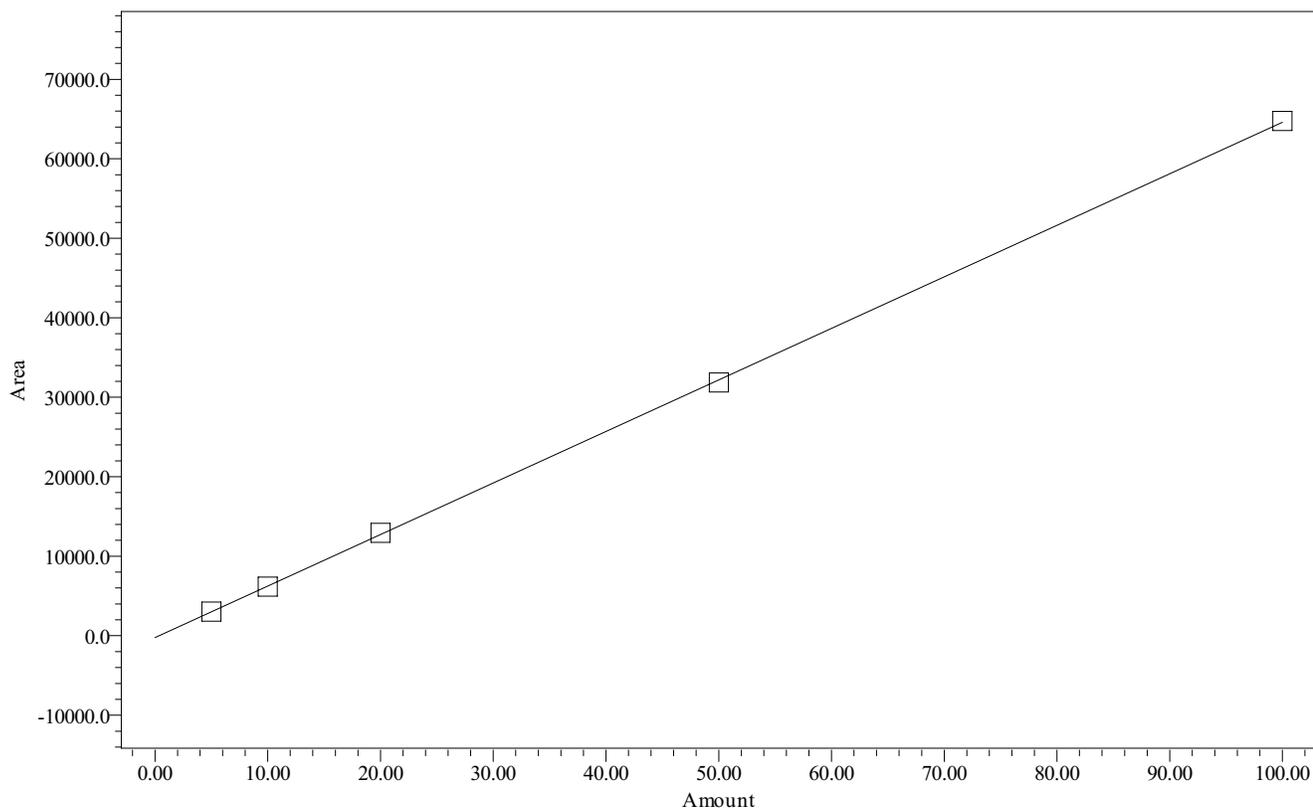
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



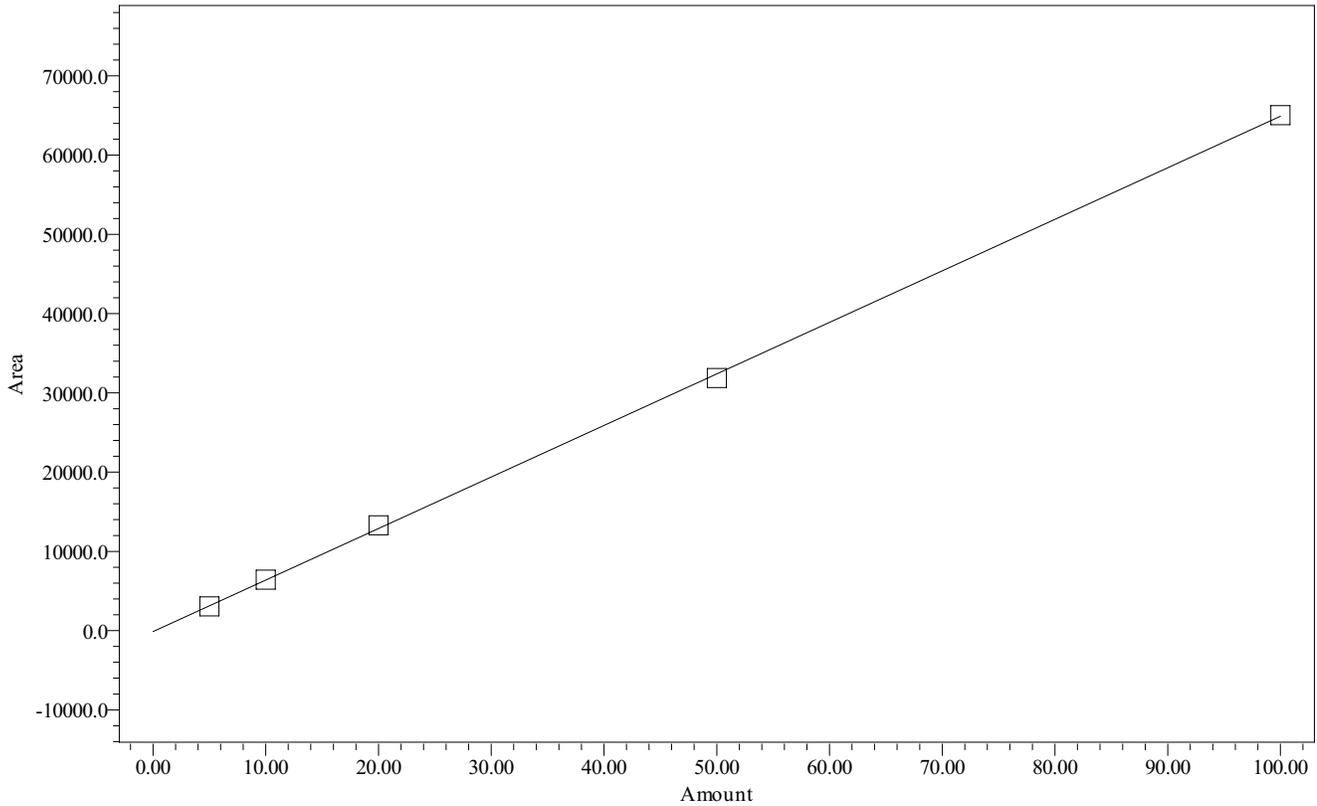
Point Table  
Peak: A1254-17/18

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00          | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00         | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00         | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00         | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00        | 64766    | 100.3       | 0.275       | No     | No     |

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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

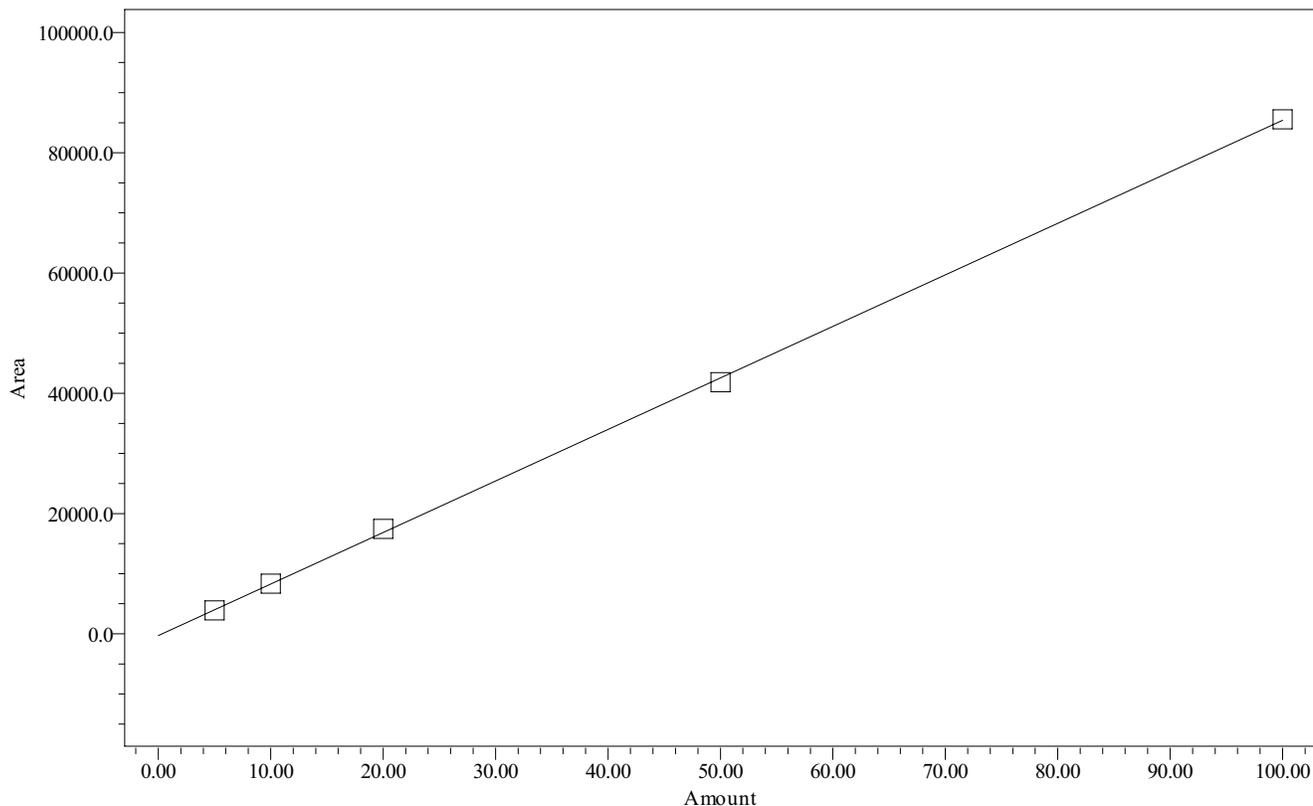
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



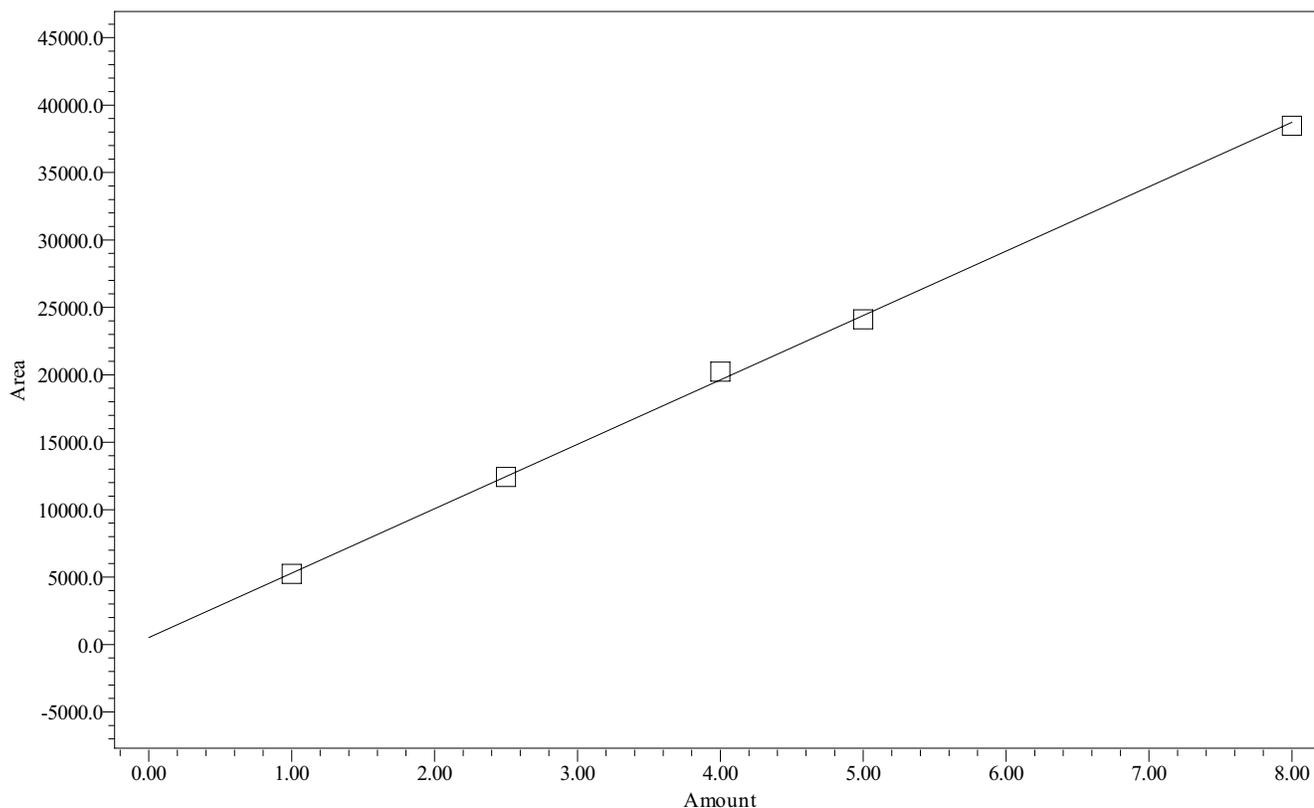
Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | TCMX                     | Coefficient constant A:                       | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

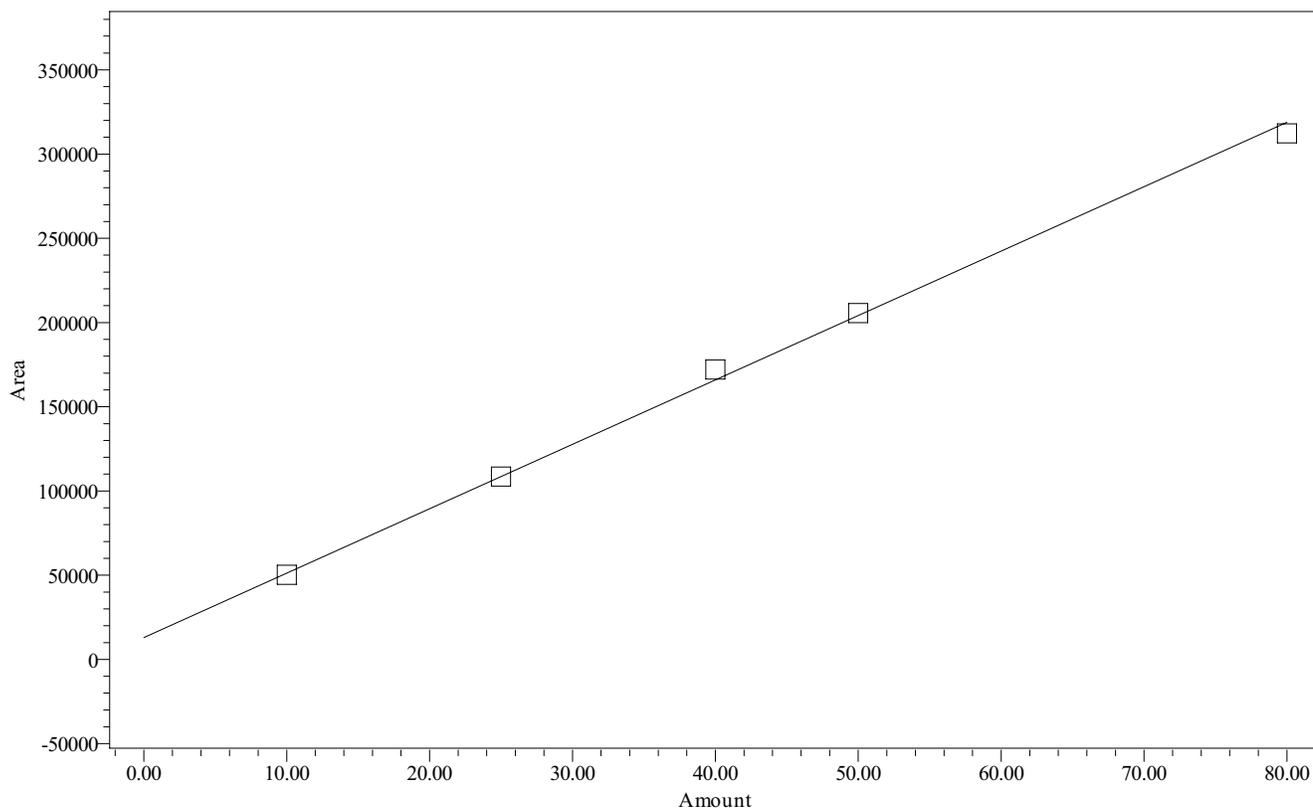
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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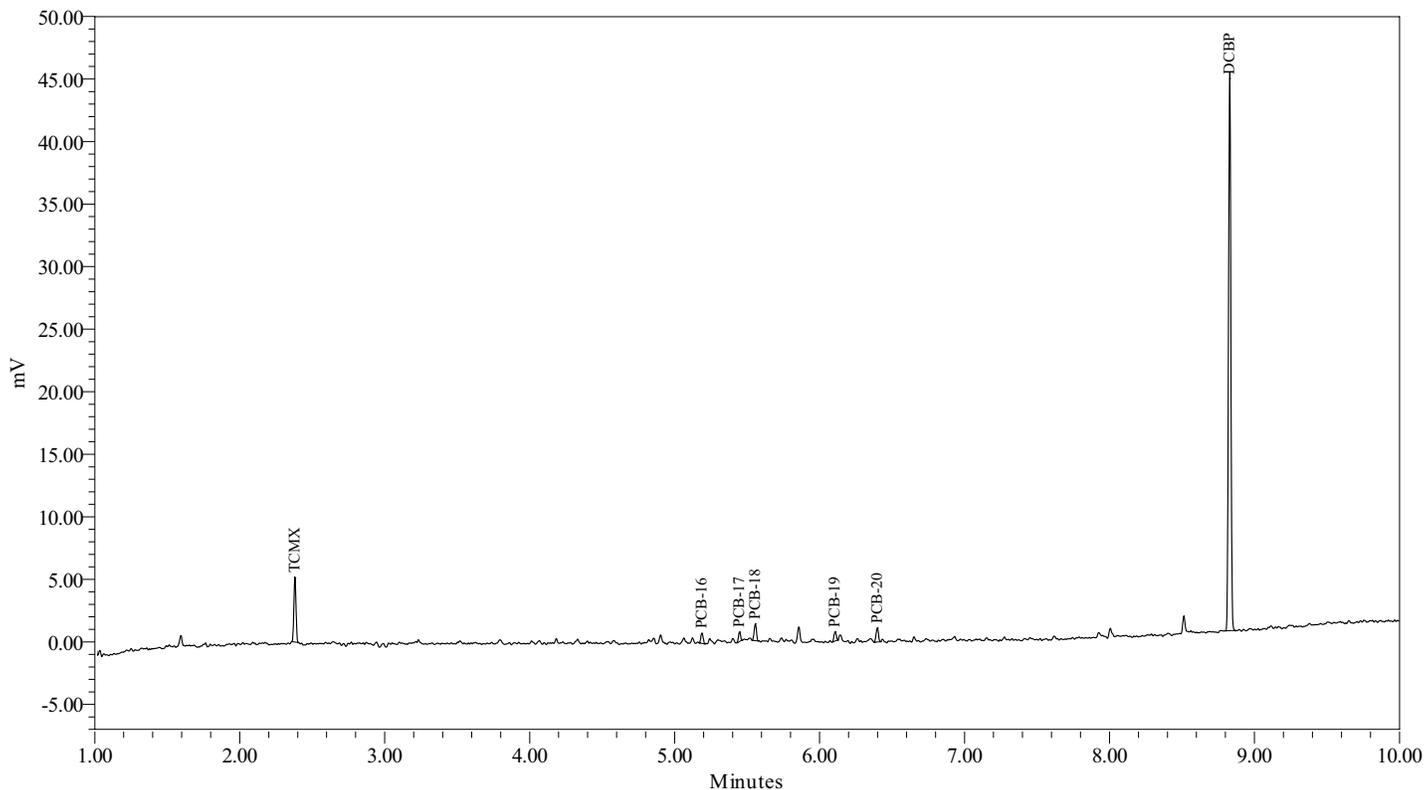
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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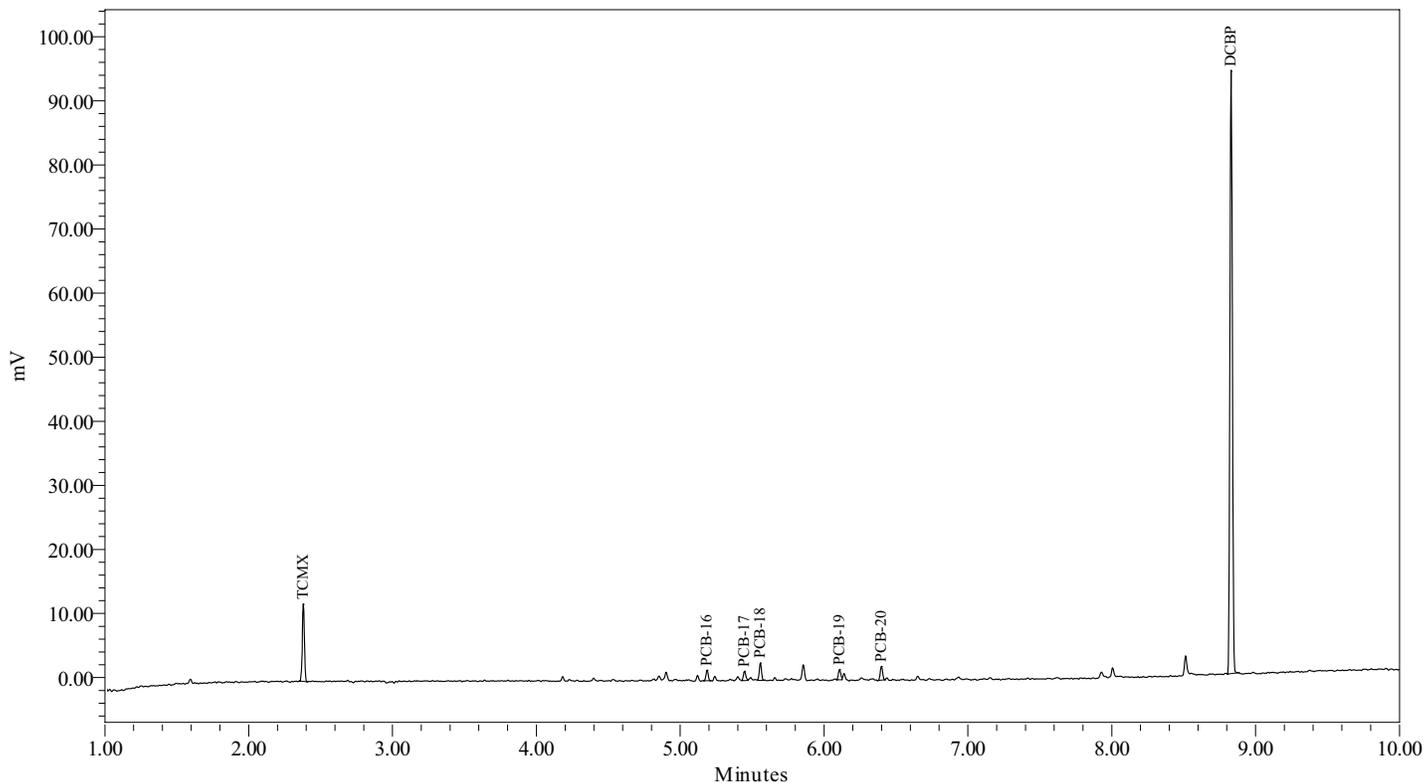
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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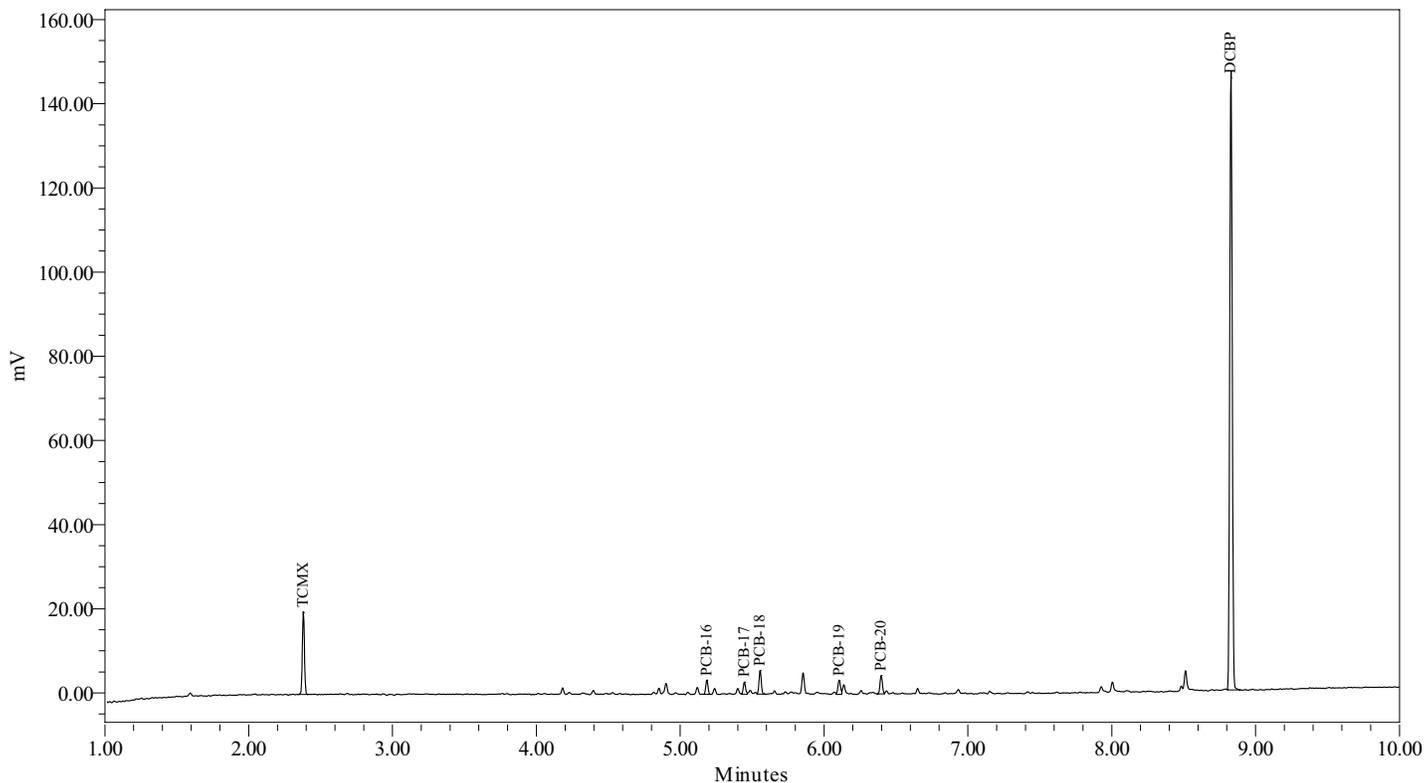
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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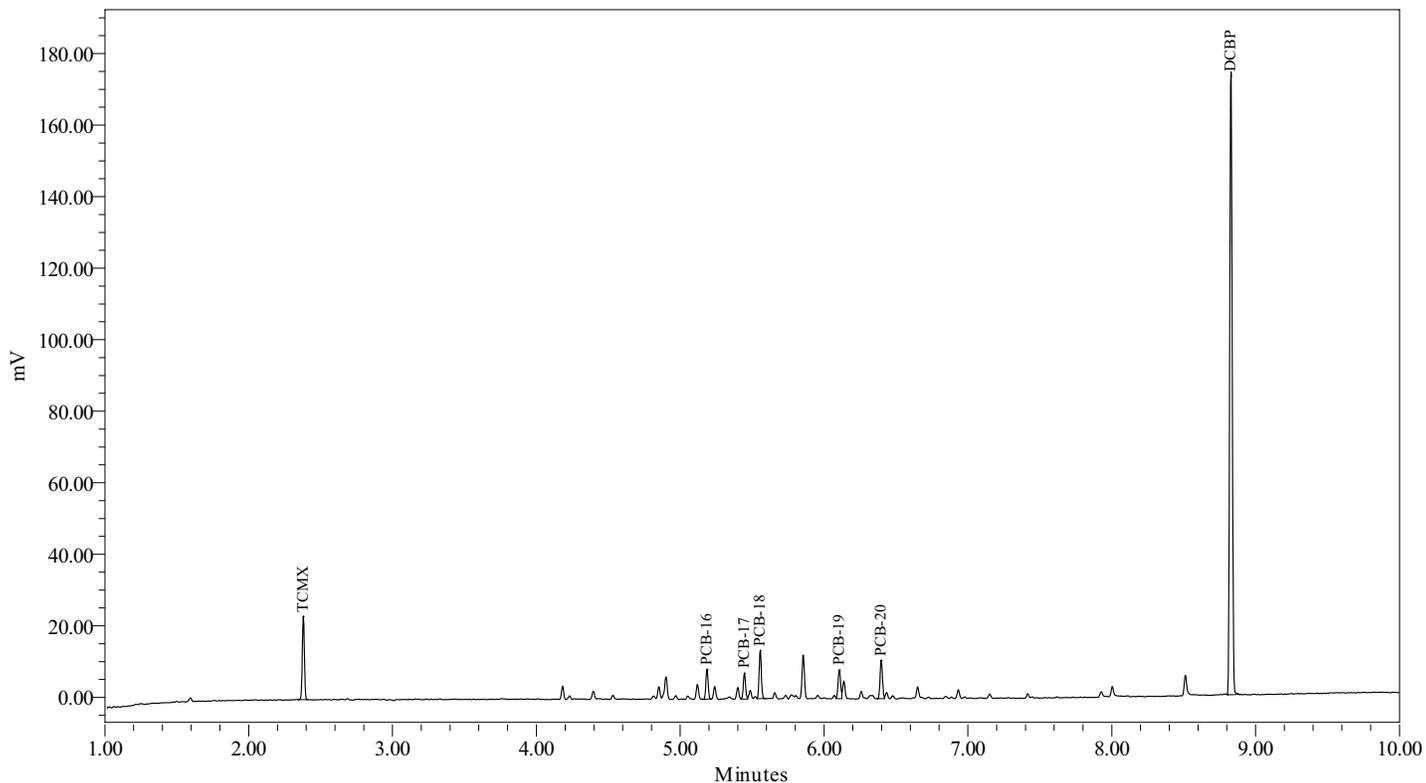
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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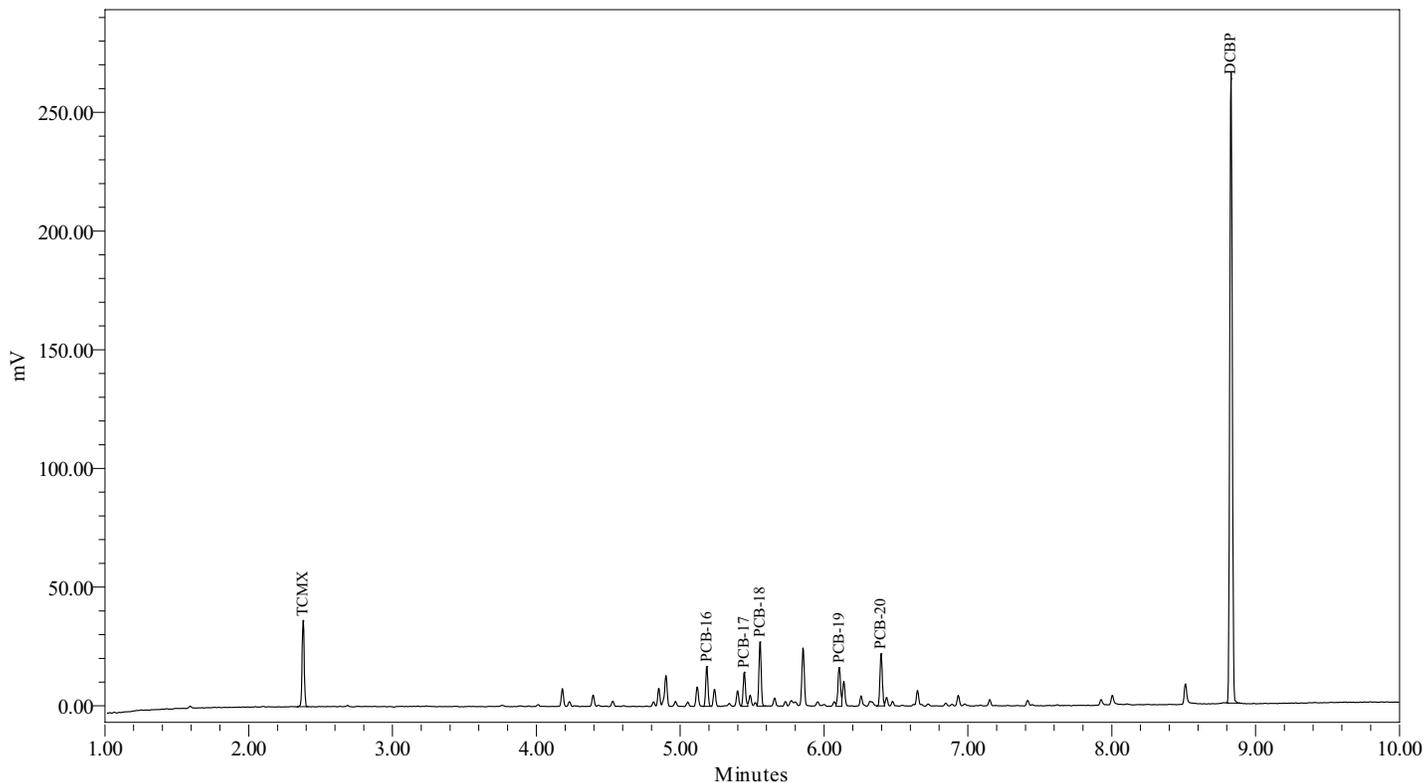
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

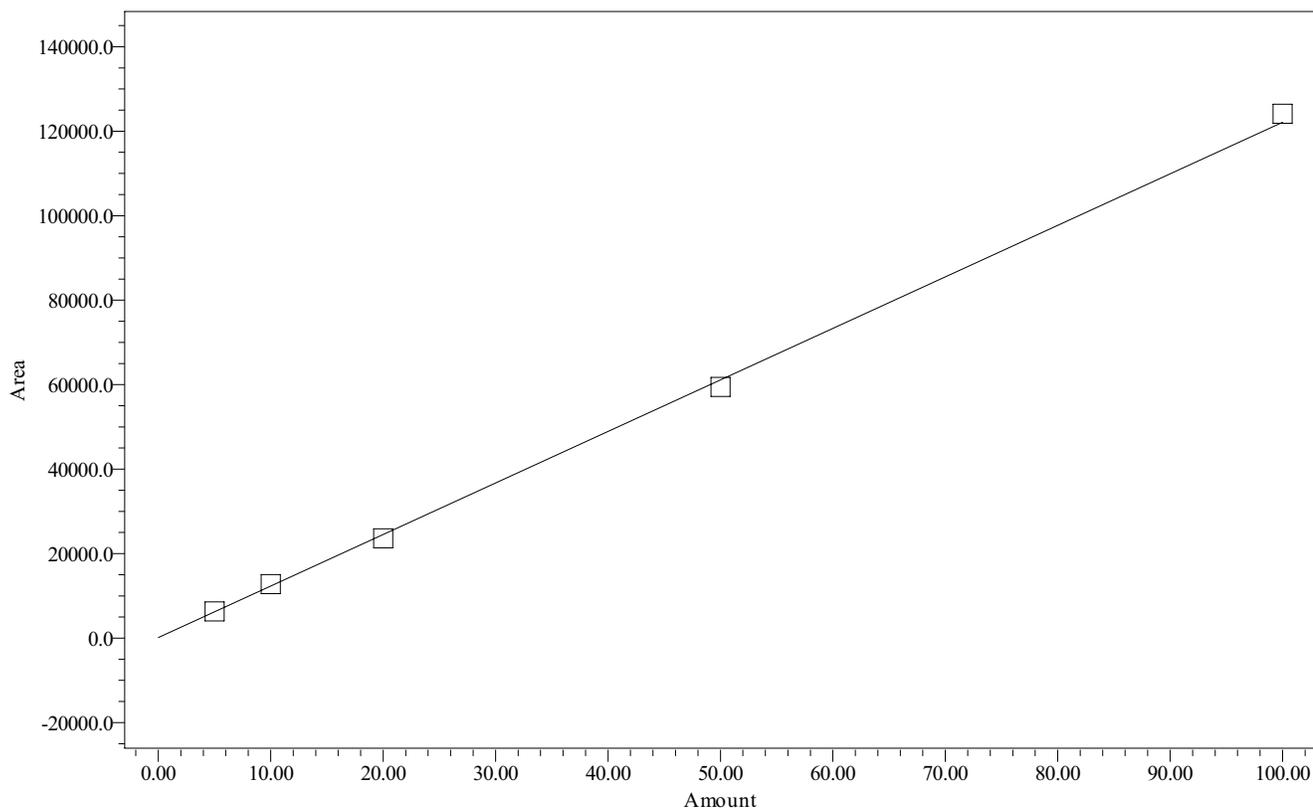
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

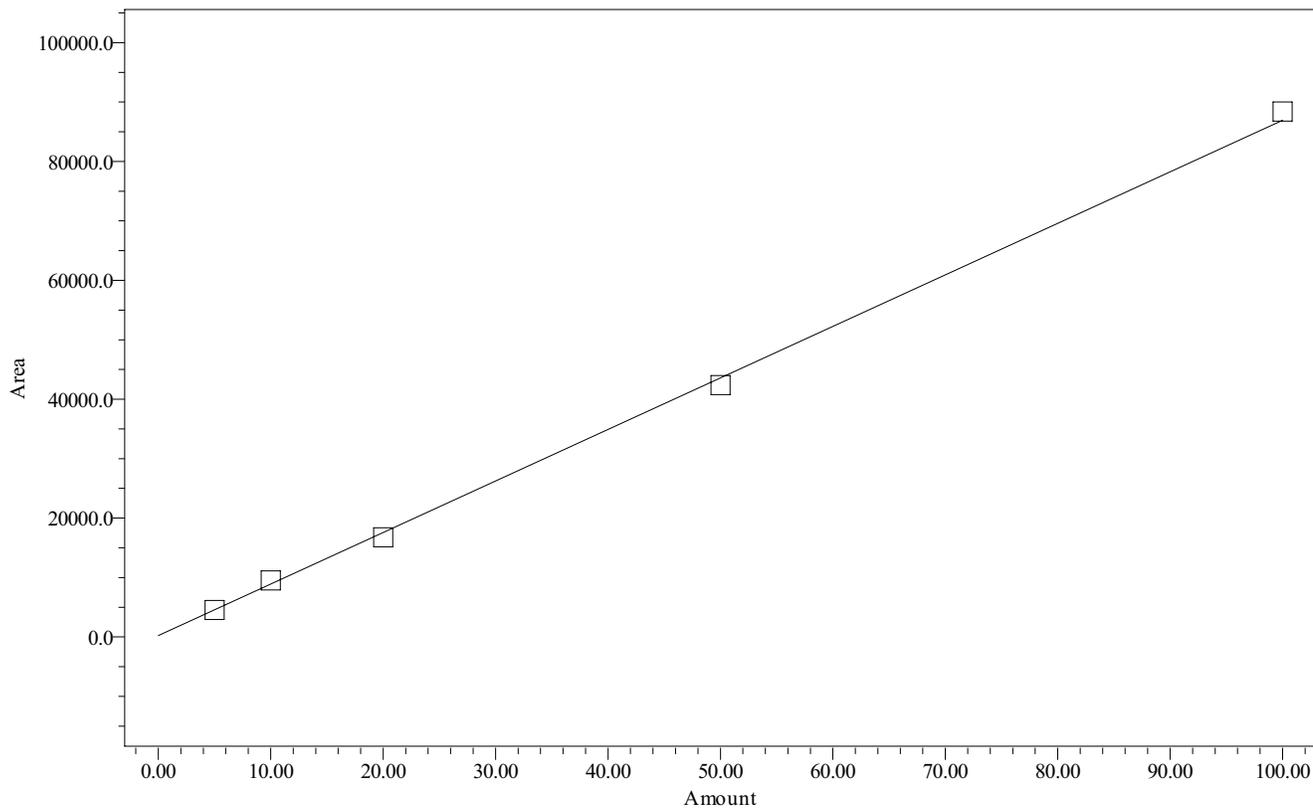
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



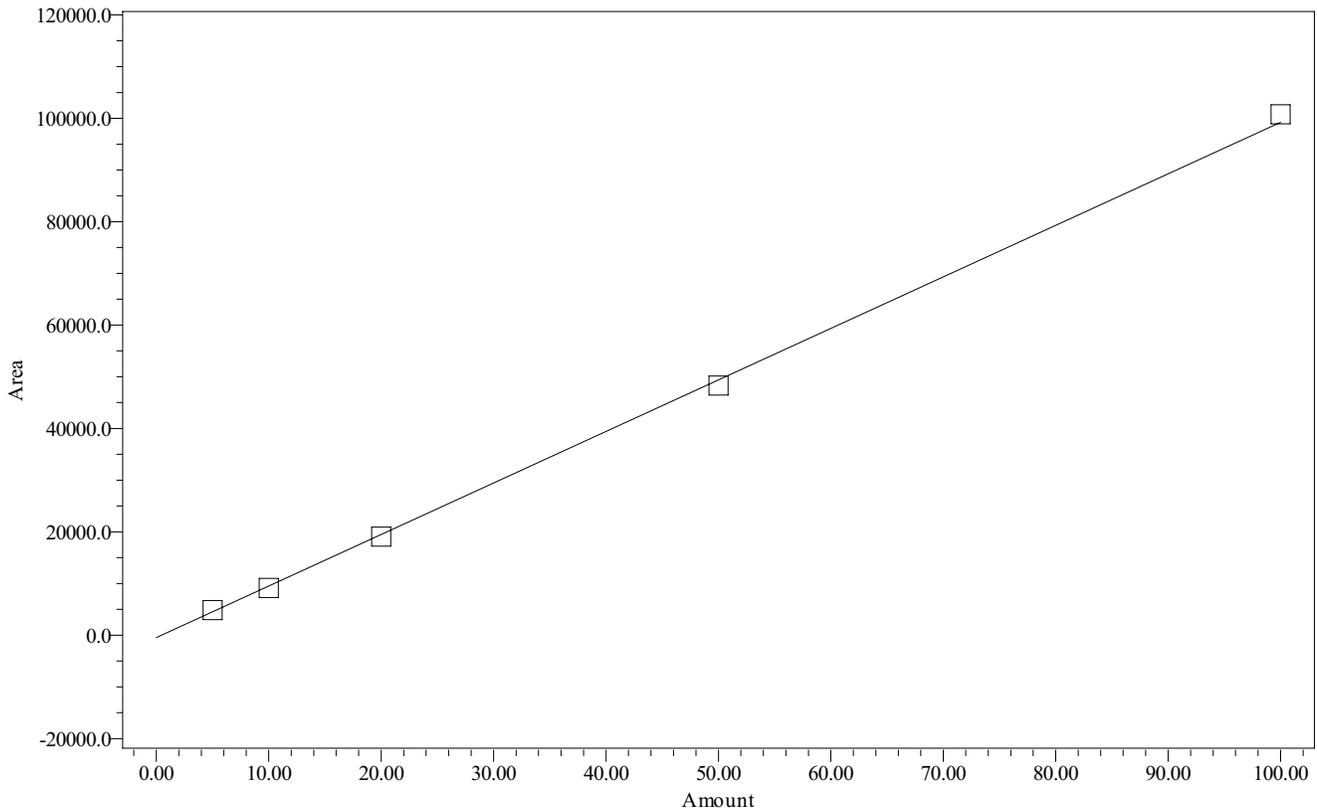
Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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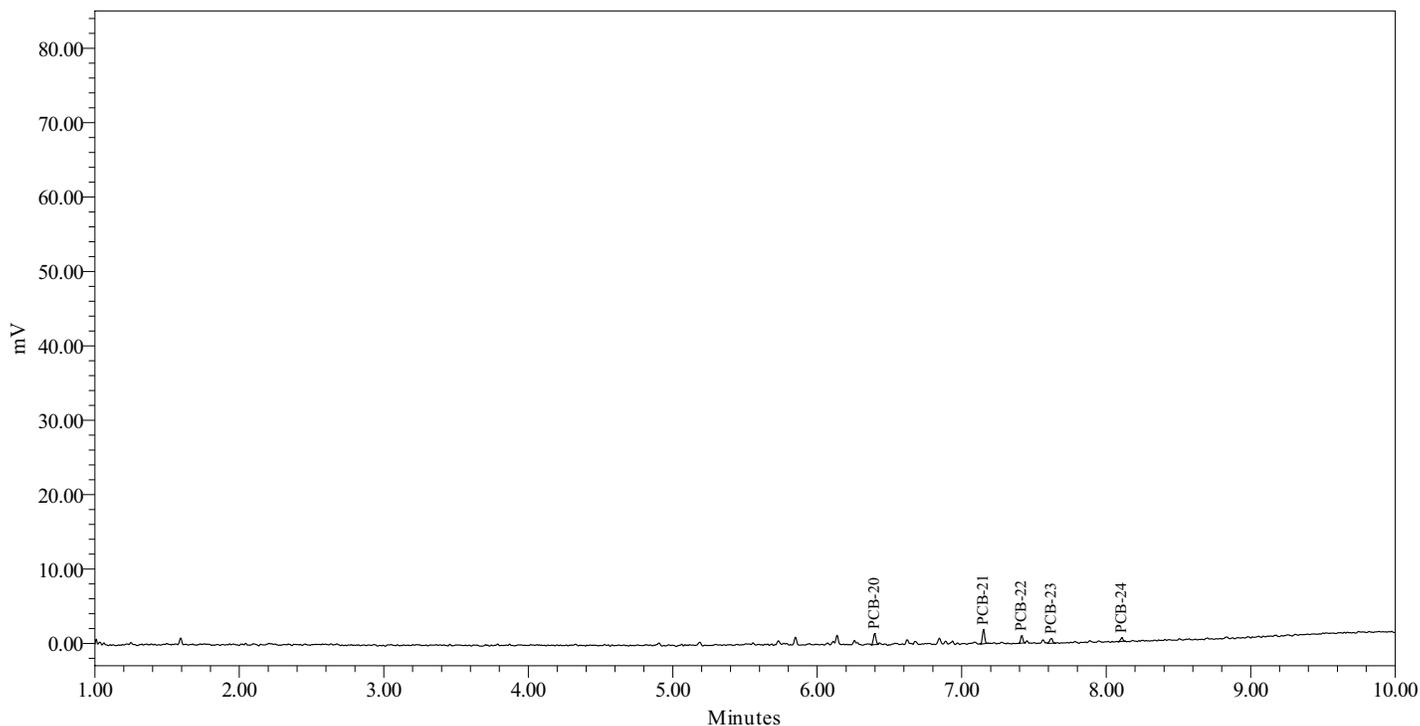
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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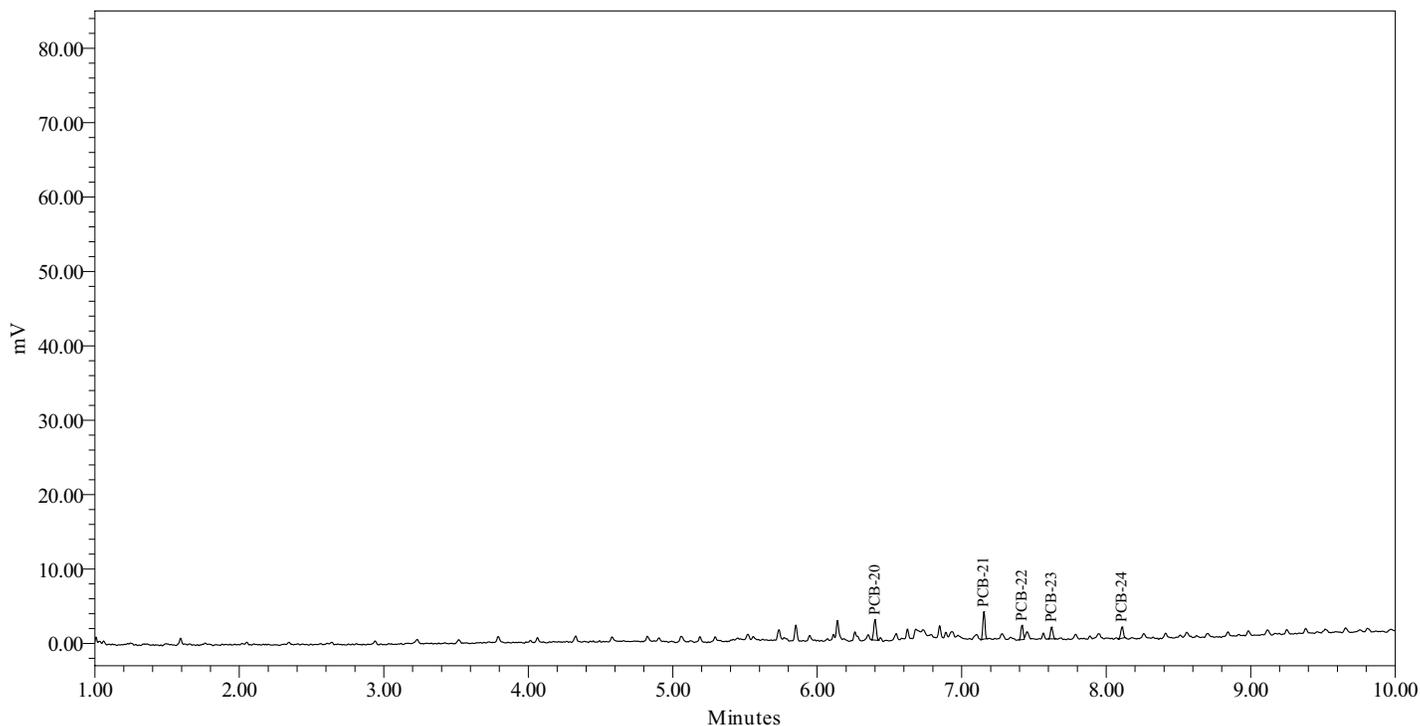
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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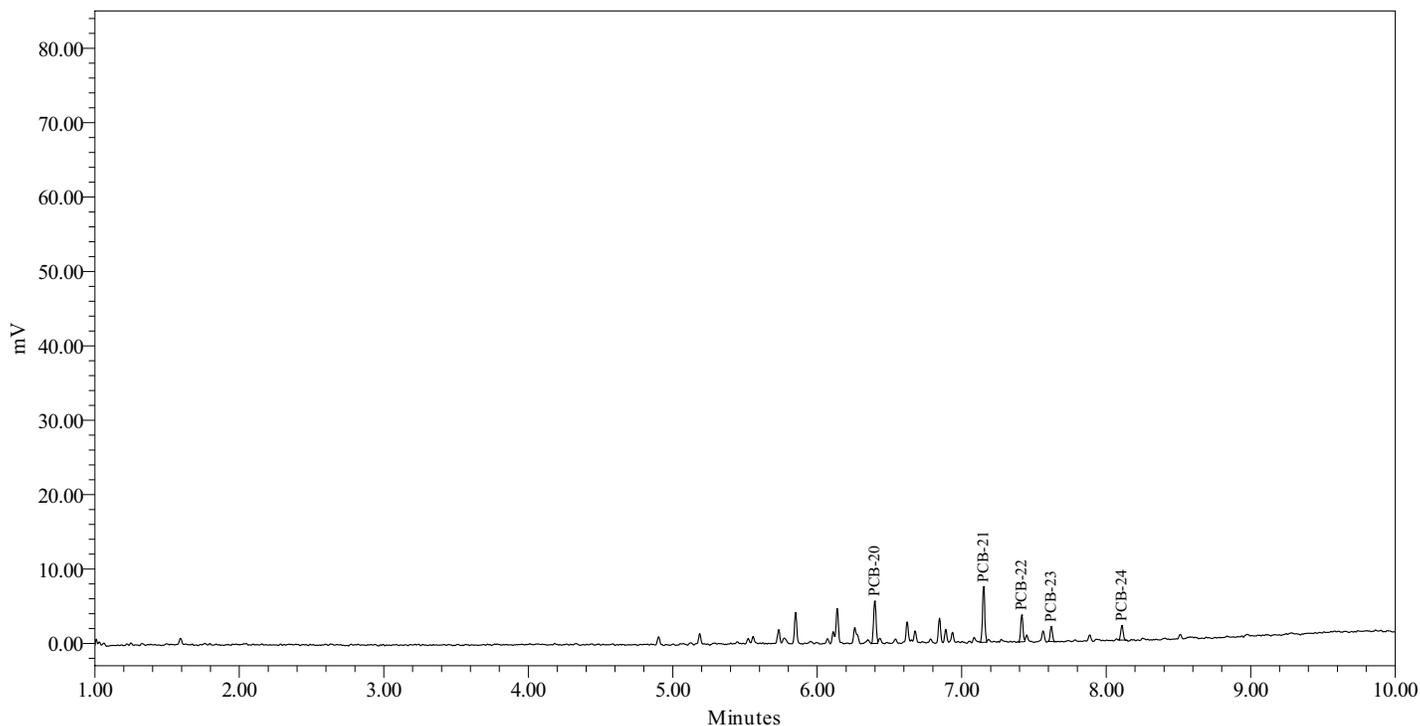
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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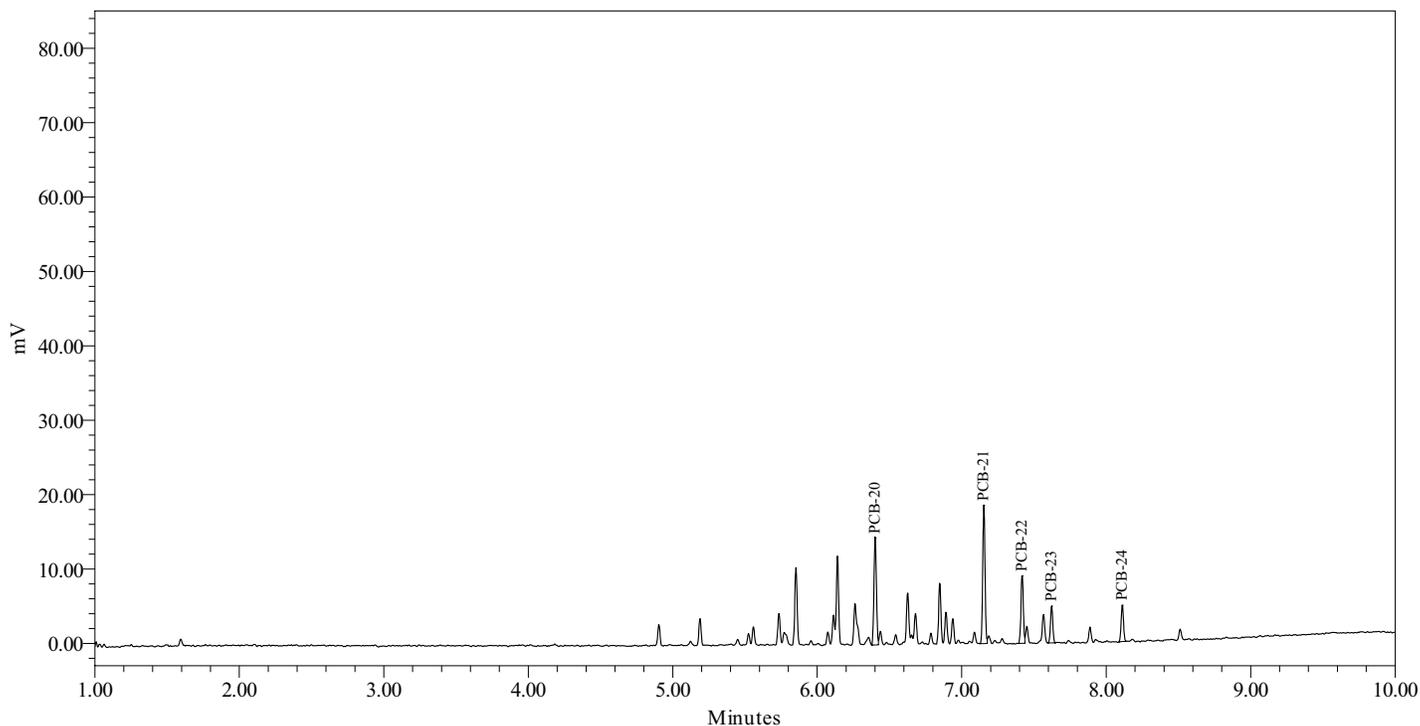
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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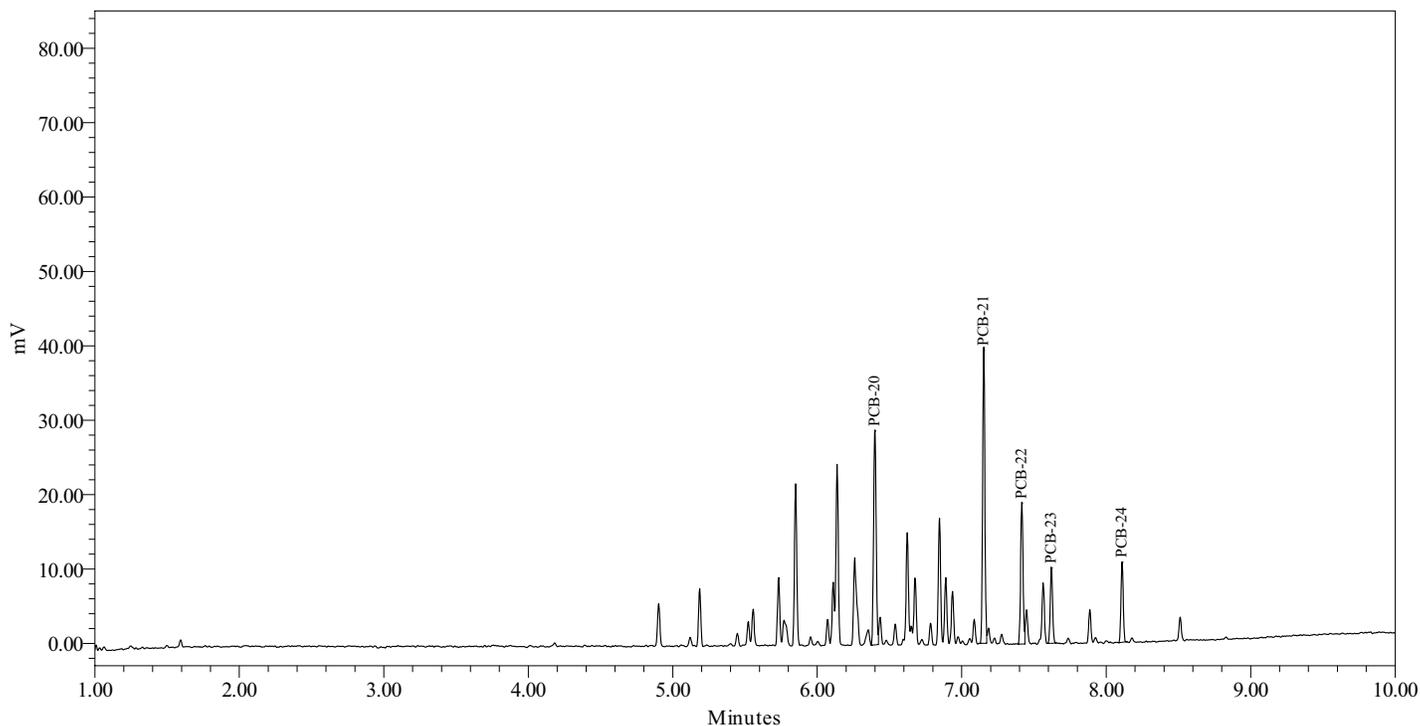
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

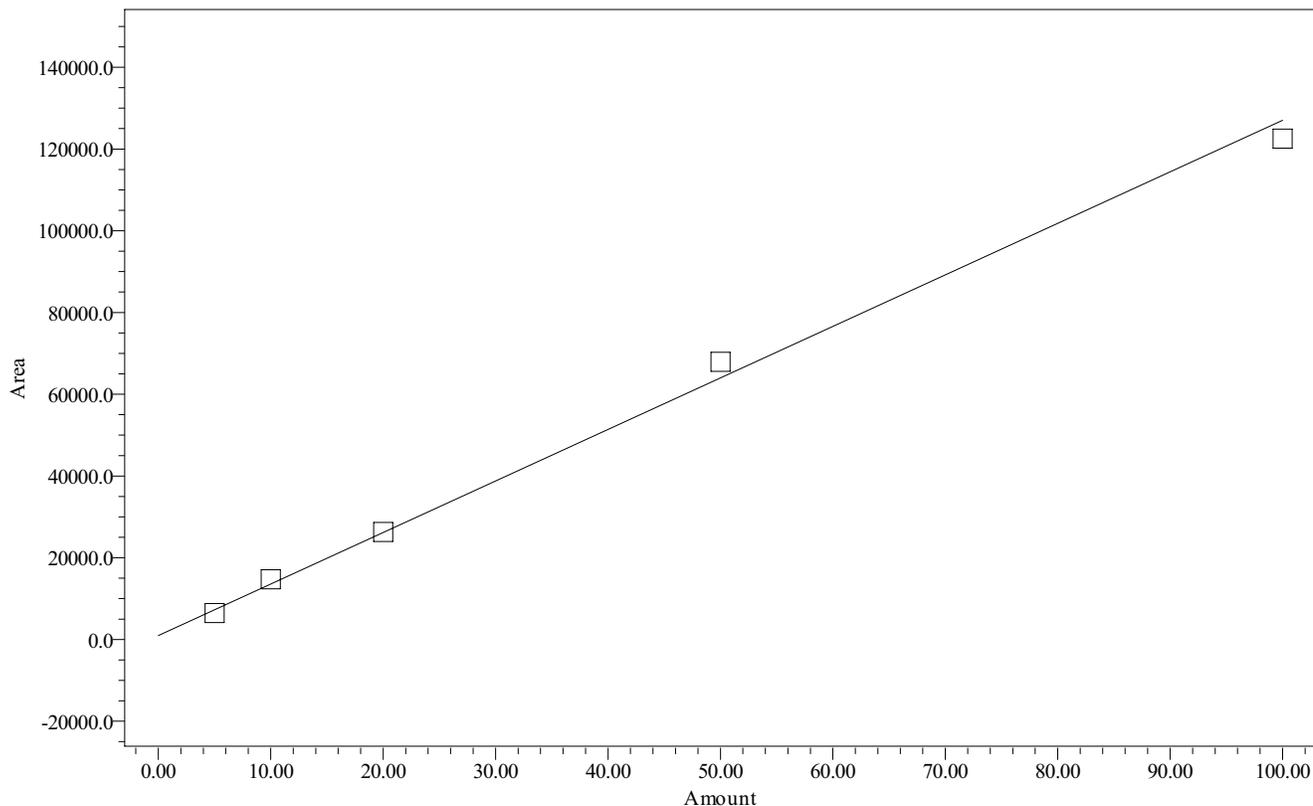
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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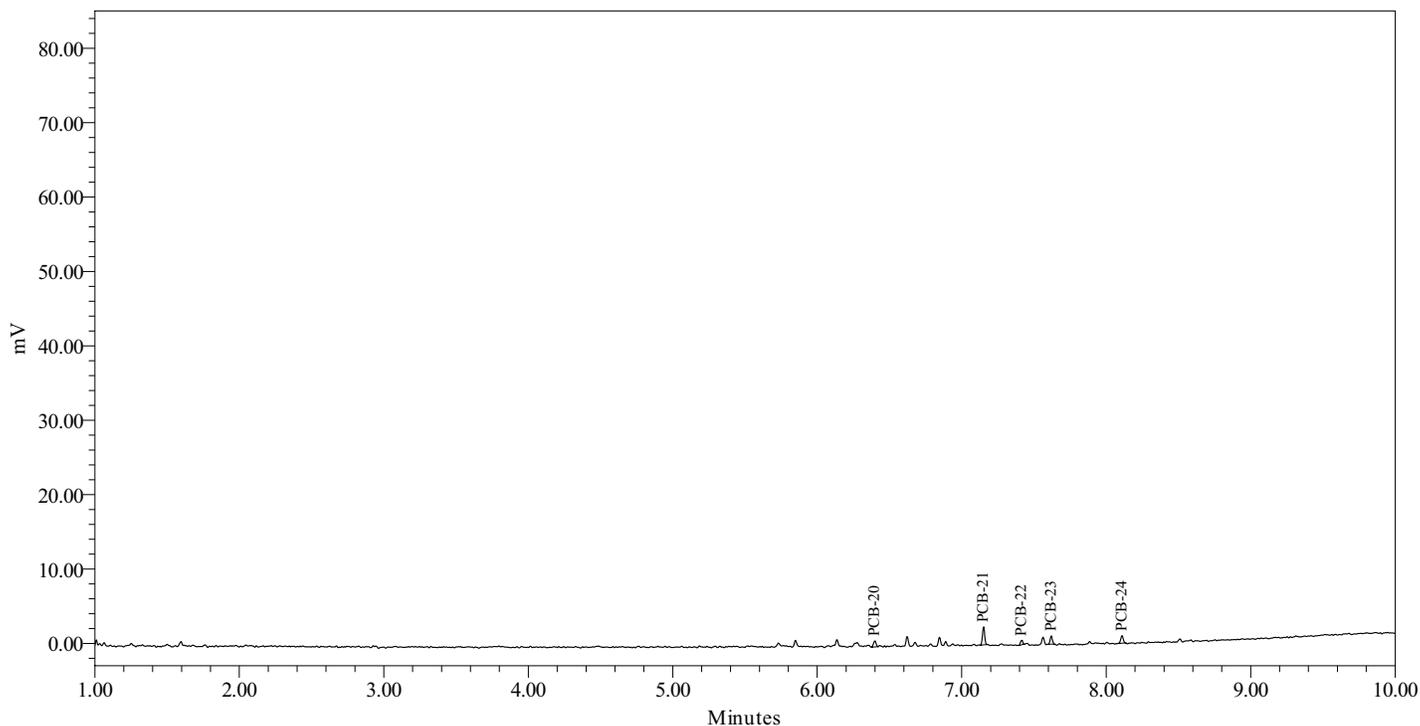
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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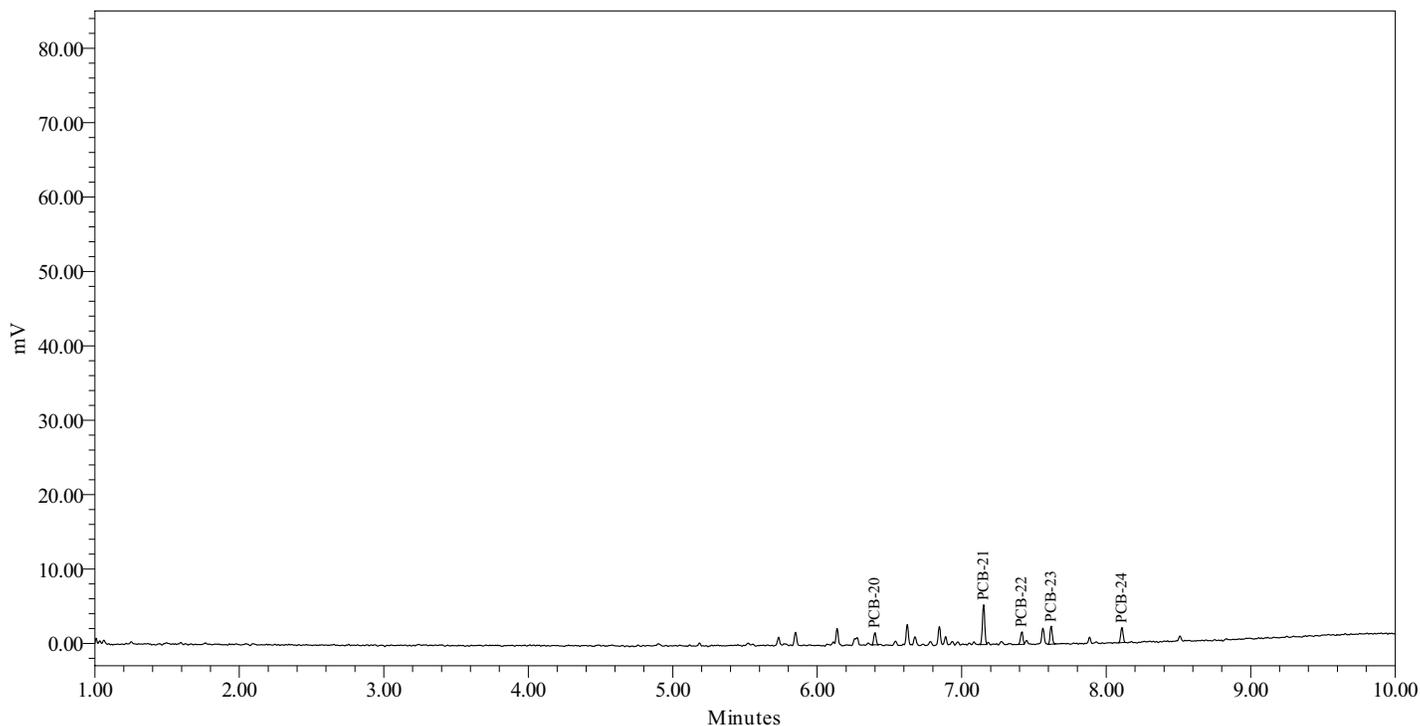
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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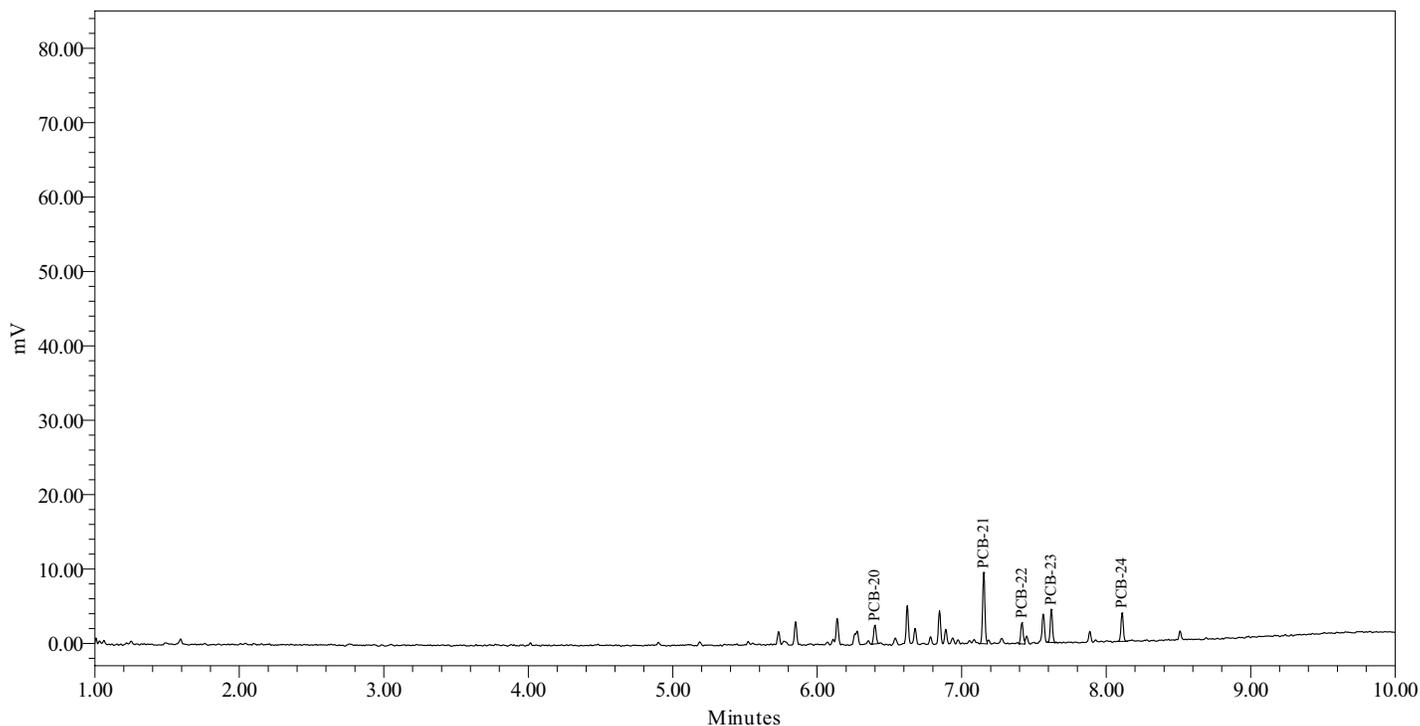
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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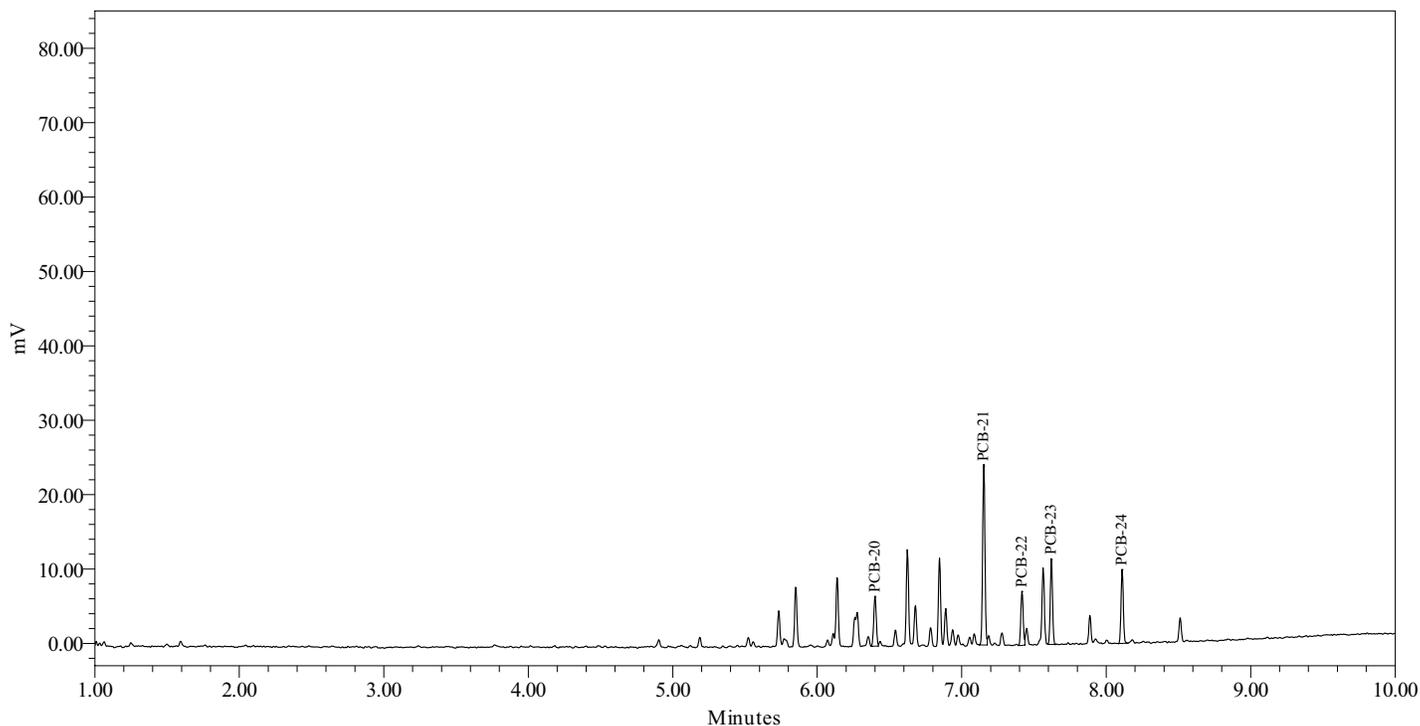
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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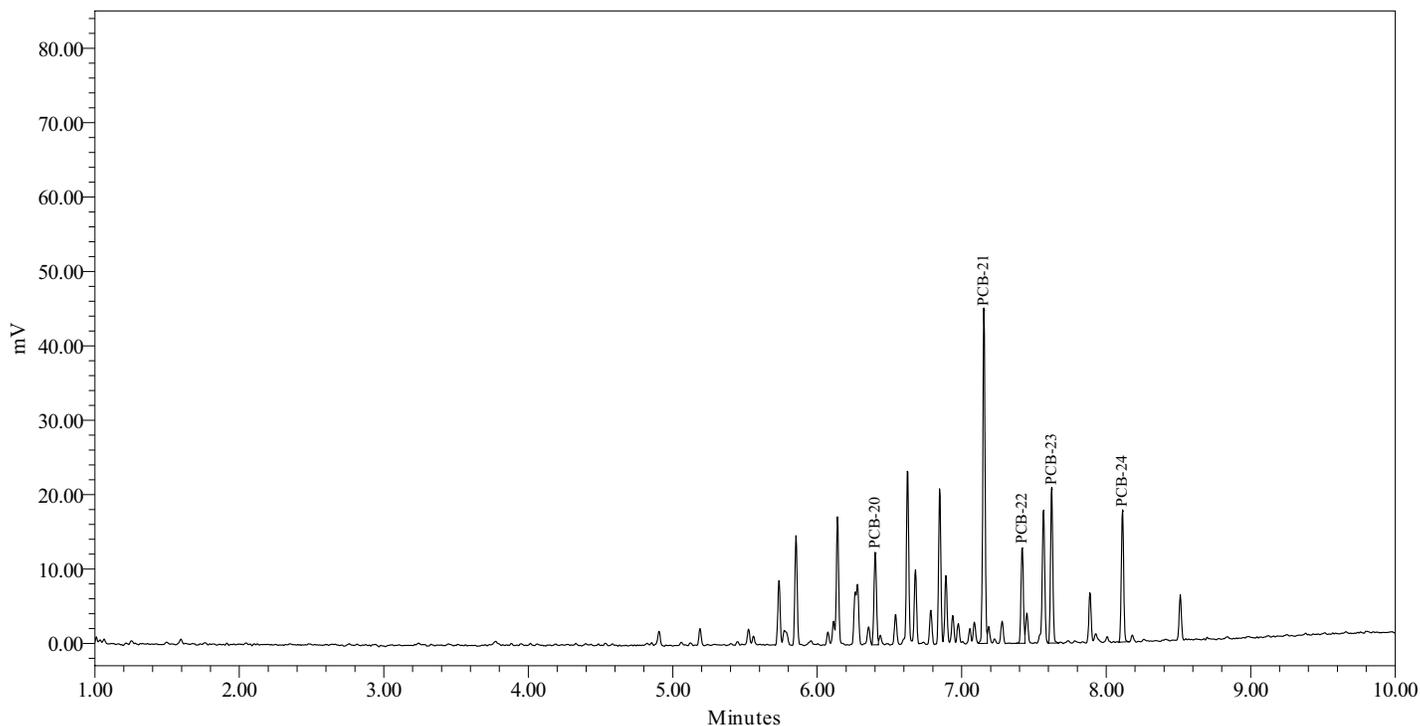
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

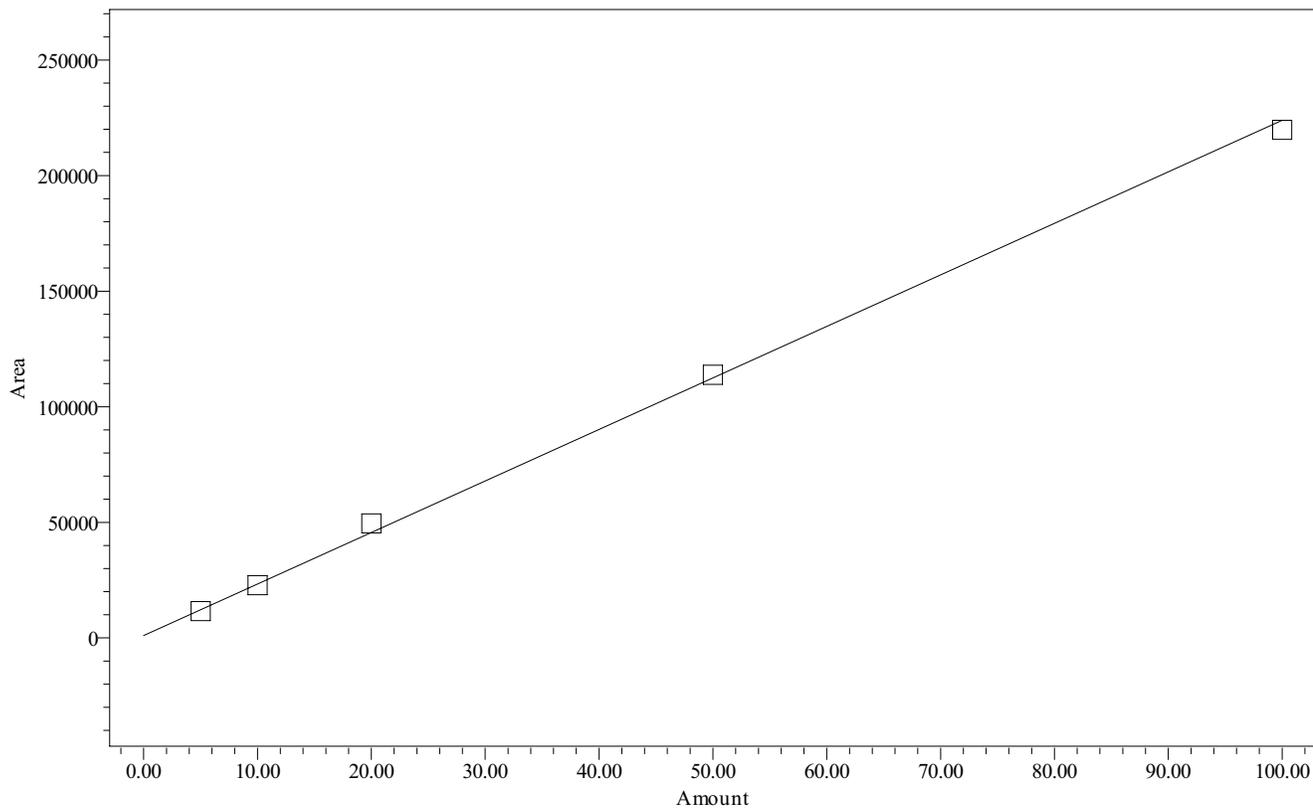
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

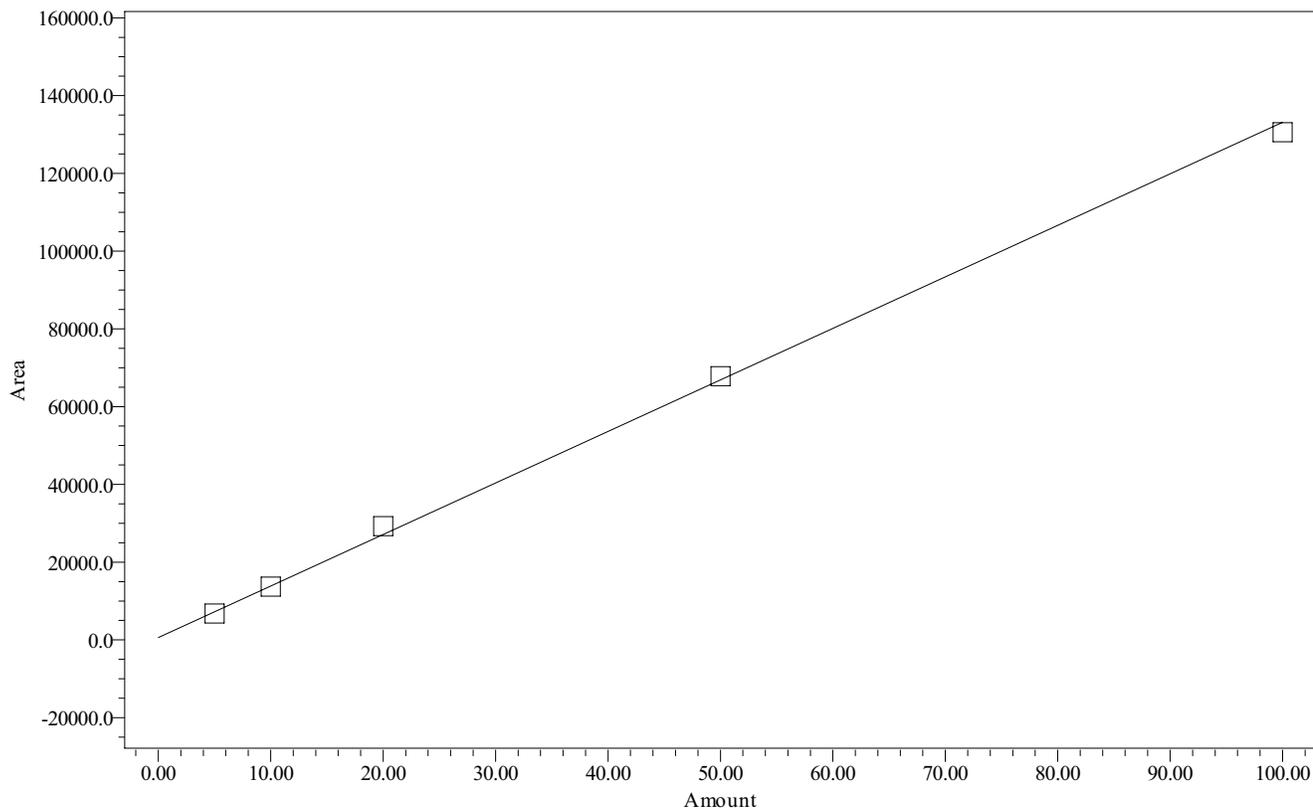
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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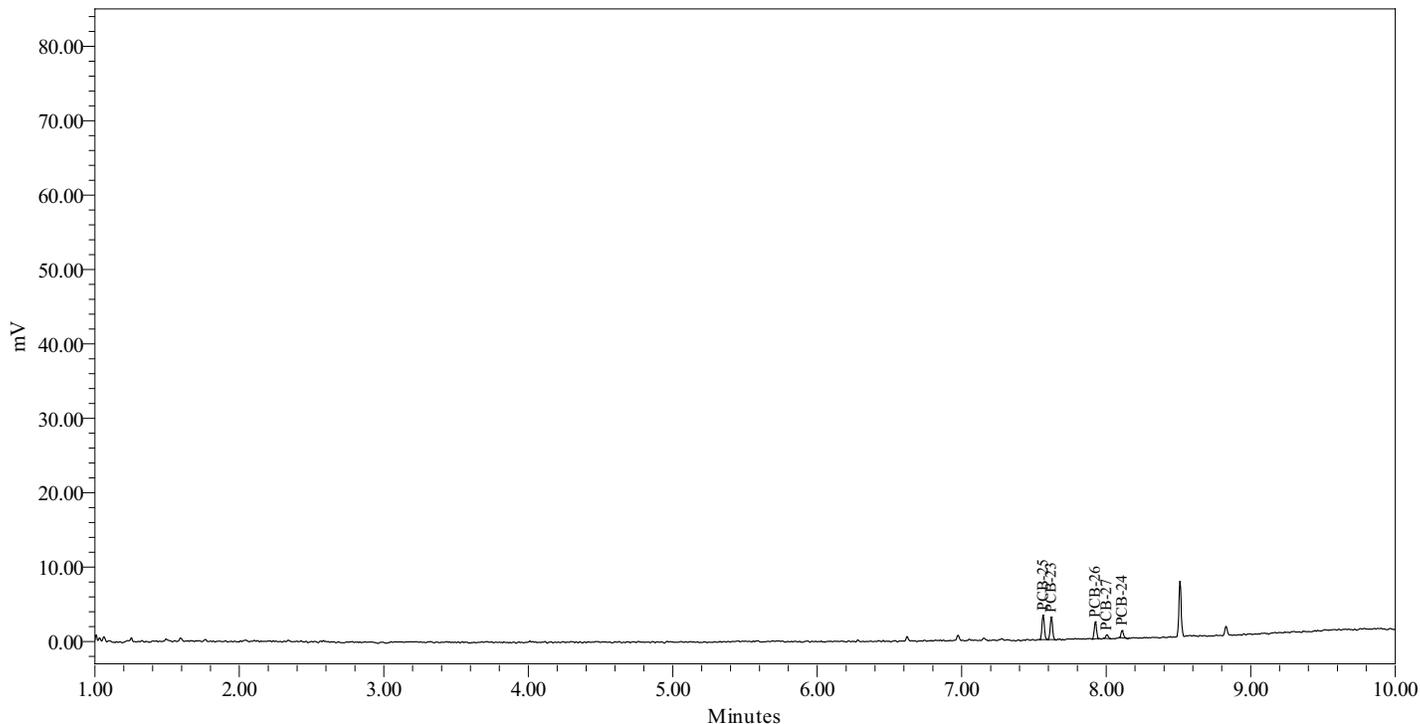
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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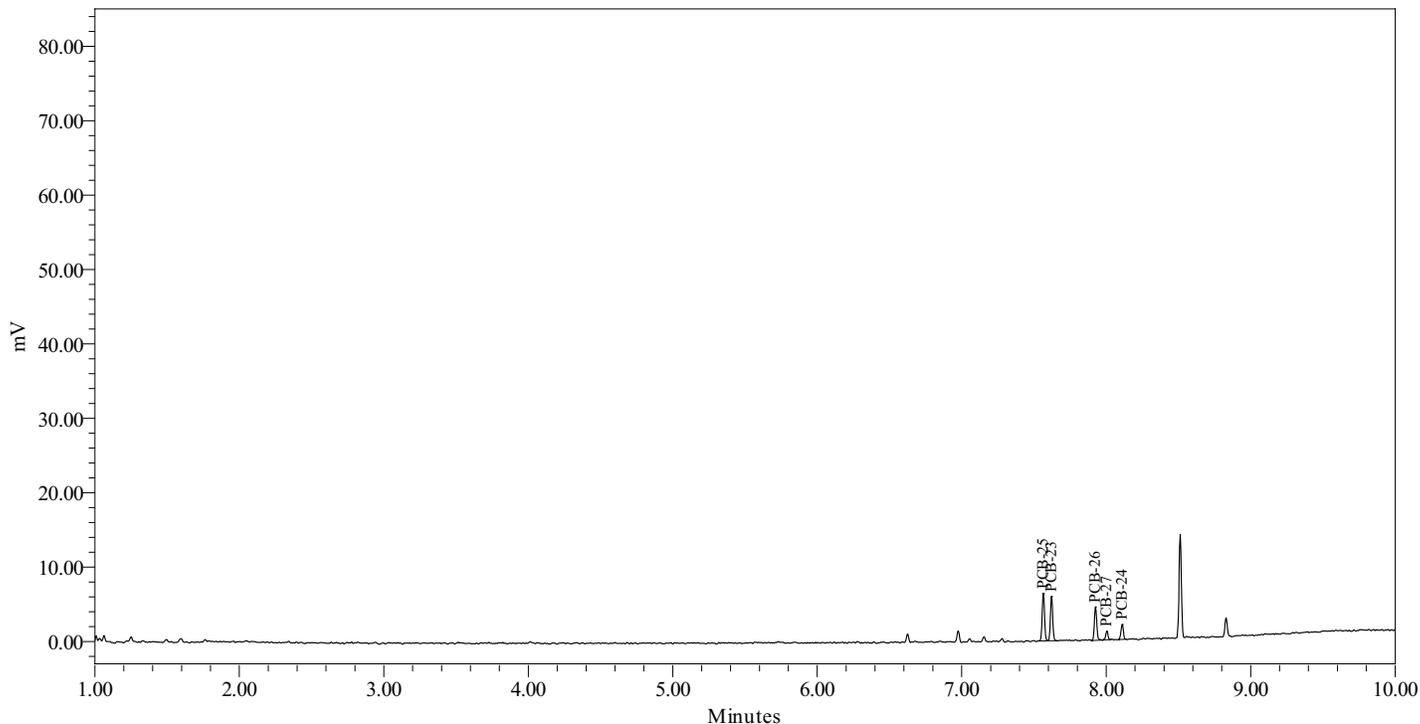
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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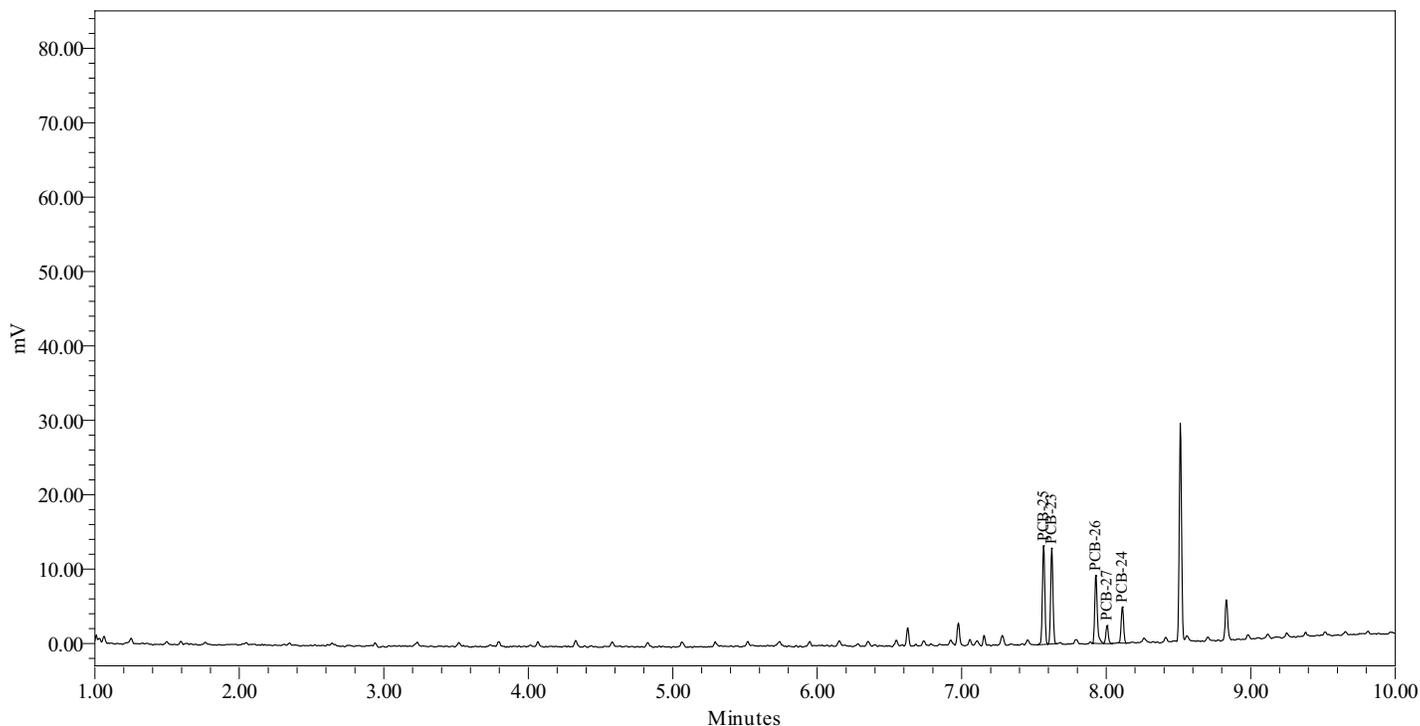
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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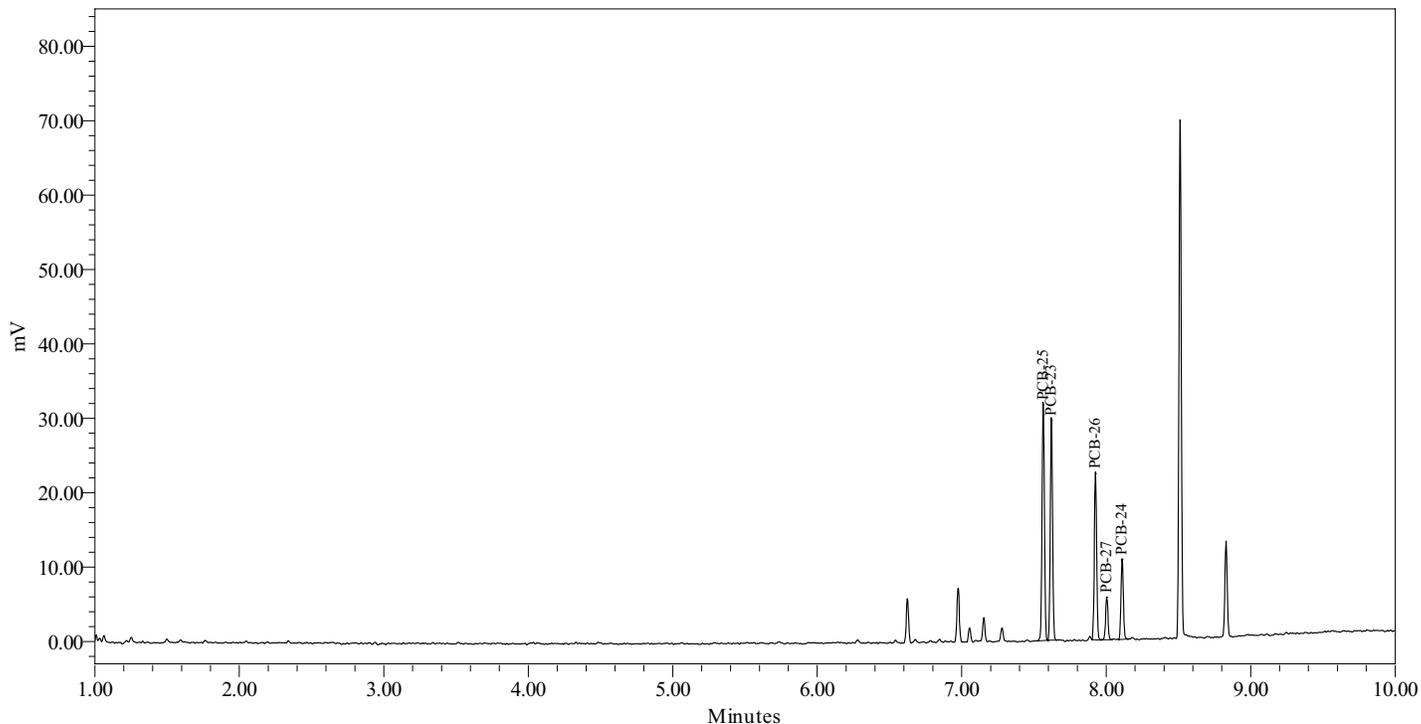
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



12

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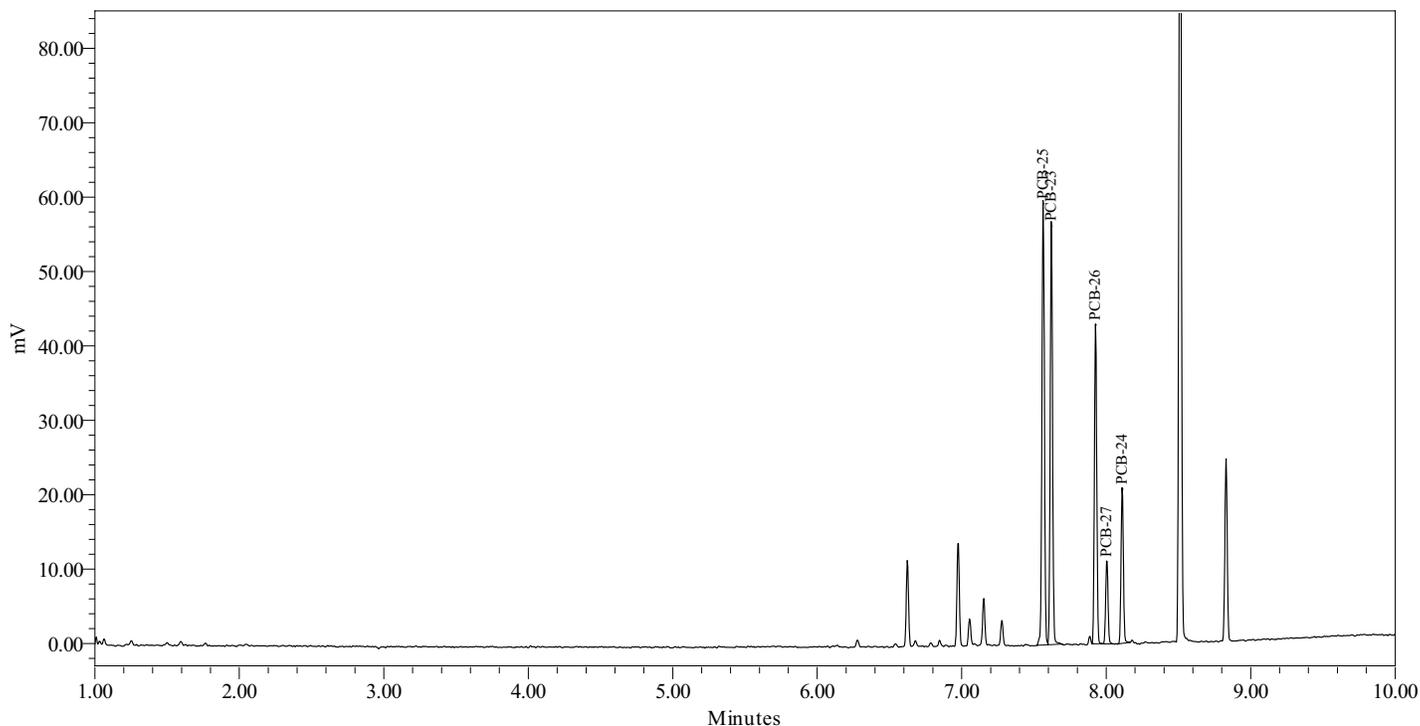
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



12

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060005

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1260 | GC28F-1630-25 | CS600601A     | CCV        | 55.4                | 50                 | 10.9               |   | 06/01/2015 17:50:03  |
| Aroclor 1016 | GC28F-1630-36 | CS160601A     | CCV        | 53.2                | 50                 | 6.47               |   | 06/01/2015 21:10:21  |
| Aroclor 1242 | GC28F-1631-33 | CS420602A     | CCV        | 50.7                | 50                 | 1.38               |   | 06/02/2015 18:01:13  |
| Aroclor 1248 | GC28F-1631-40 | CS480602A     | CCV        | 51.0                | 50                 | 1.93               |   | 06/02/2015 19:49:52  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060005

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SGD NO: 15060005

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060005

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1630-36 | CS160601A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS160601A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS160601A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS160601A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS160601A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1631-33 | CS420602A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420602A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420602A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420602A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420602A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1631-40 | CS480602A     | CCV         | 1    | 4.22 | 4.15      | 4.31 |
|              |               | CS480602A     | CCV         | 2    | 4.52 | 4.45      | 4.61 |
|              |               | CS480602A     | CCV         | 3    | 4.80 | 4.74      | 4.90 |
|              |               | CS480602A     | CCV         | 4    | 4.87 | 4.81      | 4.97 |
|              |               | CS480602A     | CCV         | 5    | 5.04 | 4.97      | 5.13 |
| Aroclor 1260 | GC28F-1630-25 | CS600601A     | CCV         | 1    | 6.39 | 6.32      | 6.48 |
|              |               | CS600601A     | CCV         | 2    | 7.14 | 7.07      | 7.23 |
|              |               | CS600601A     | CCV         | 3    | 7.41 | 7.34      | 7.50 |
|              |               | CS600601A     | CCV         | 4    | 7.61 | 7.54      | 7.70 |
|              |               | CS600601A     | CCV         | 5    | 8.10 | 8.03      | 8.19 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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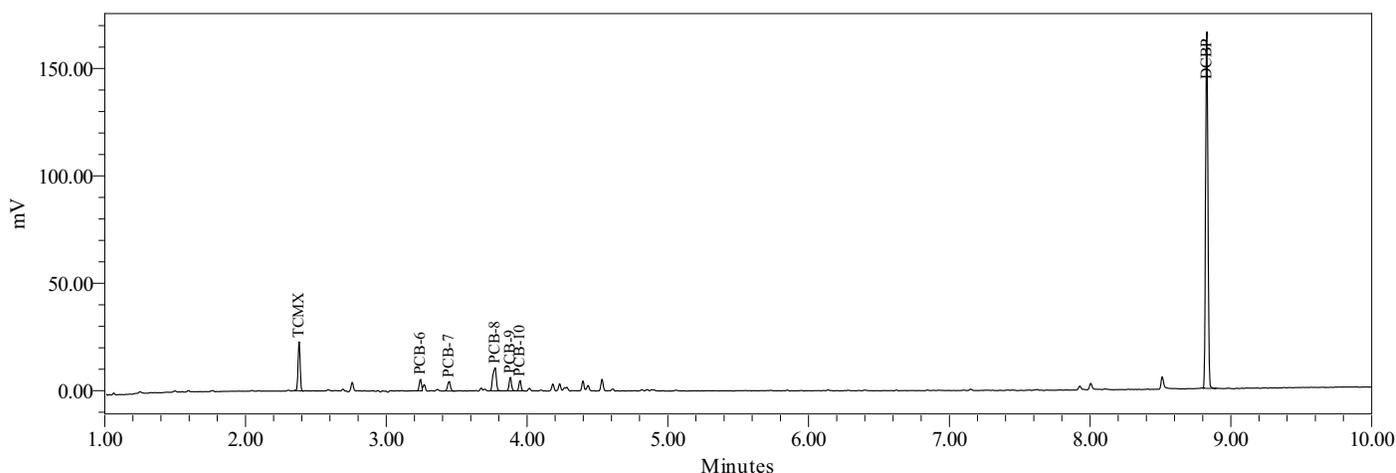
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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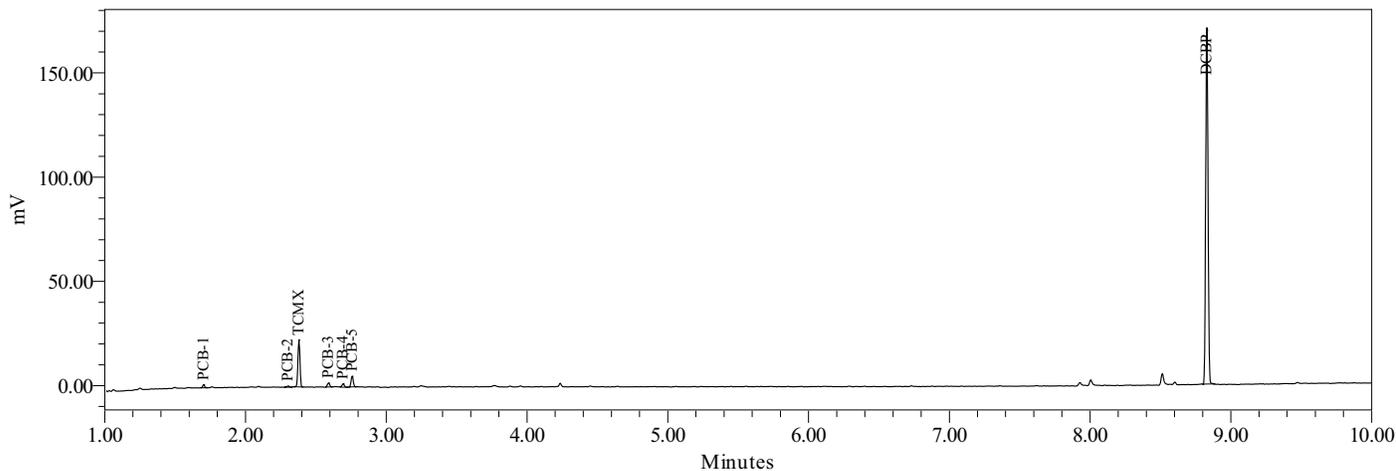
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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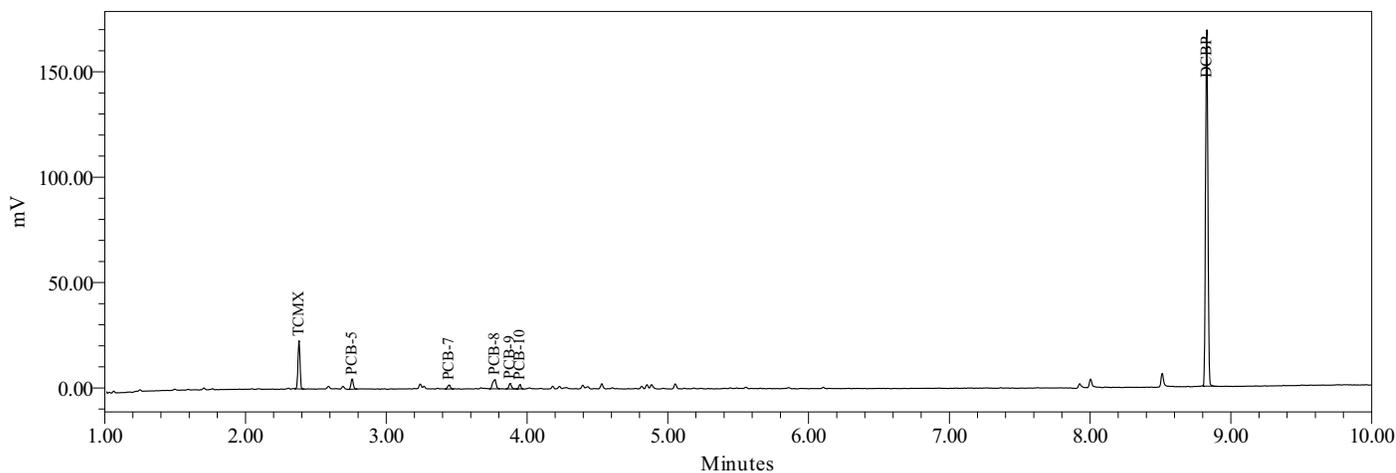
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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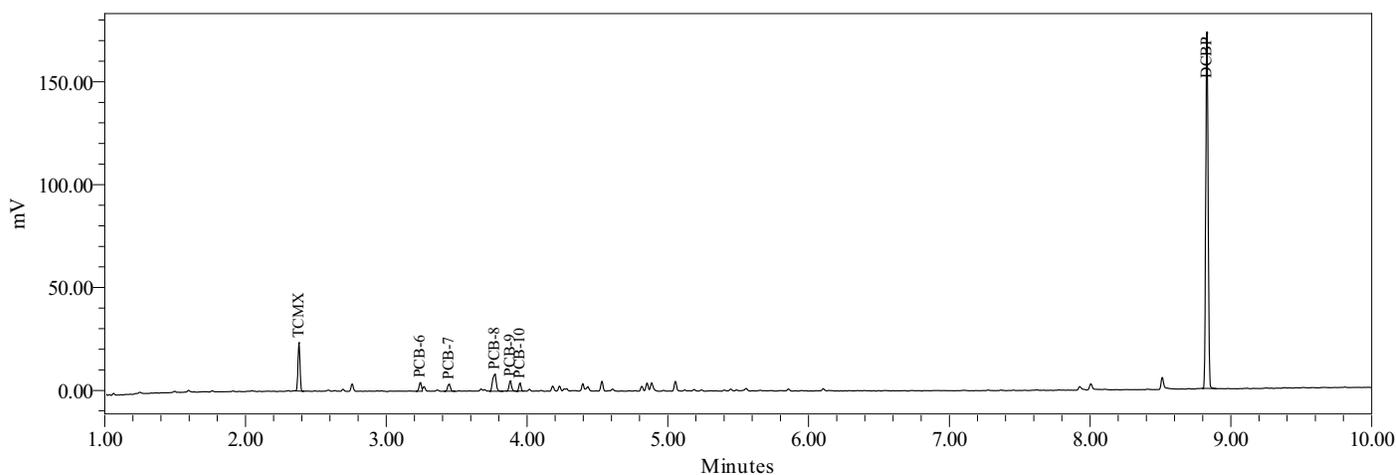
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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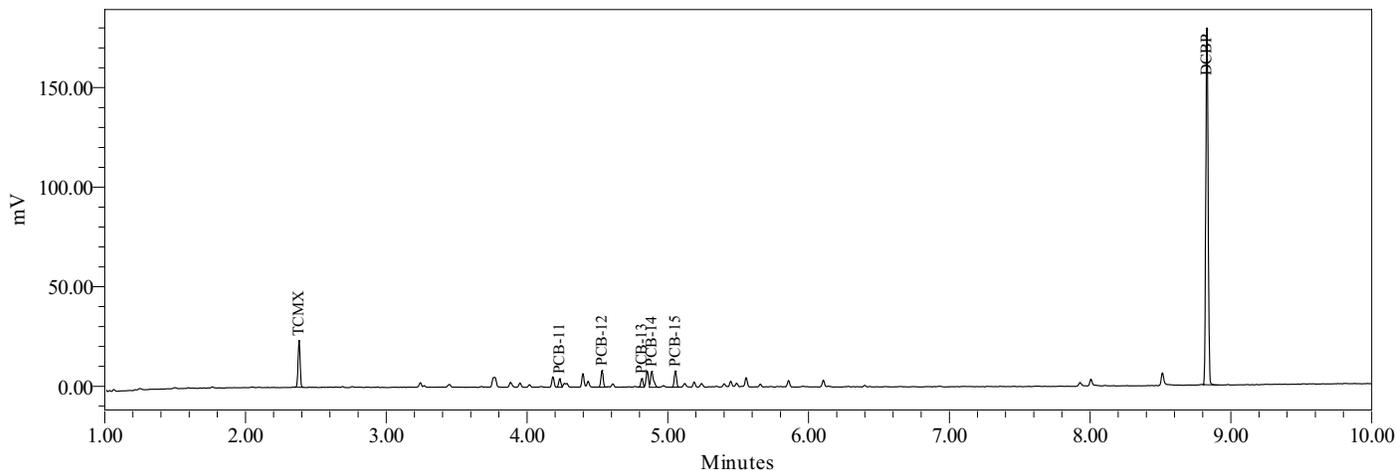
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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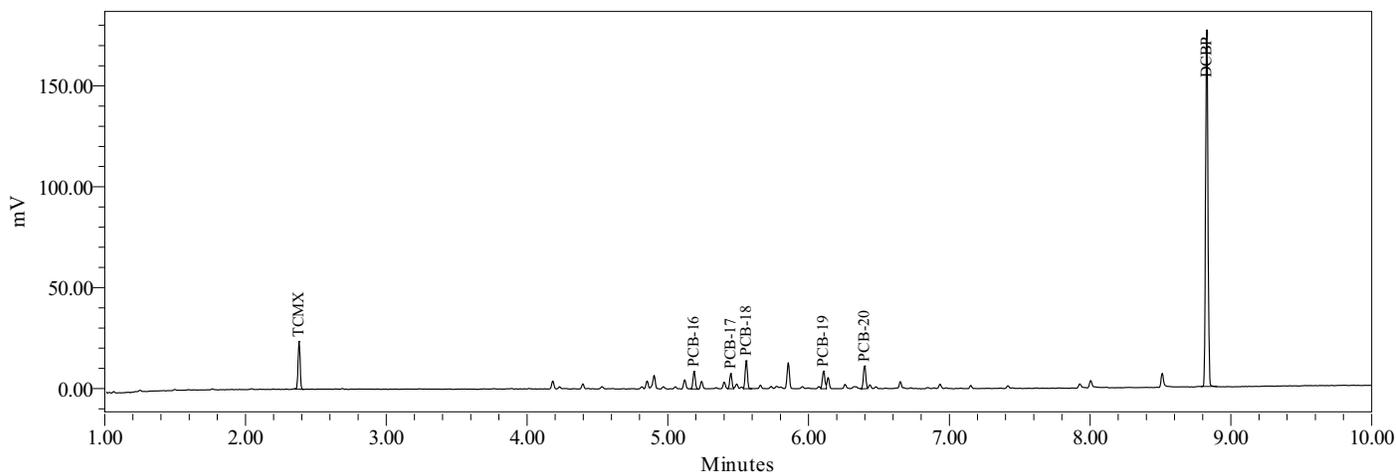
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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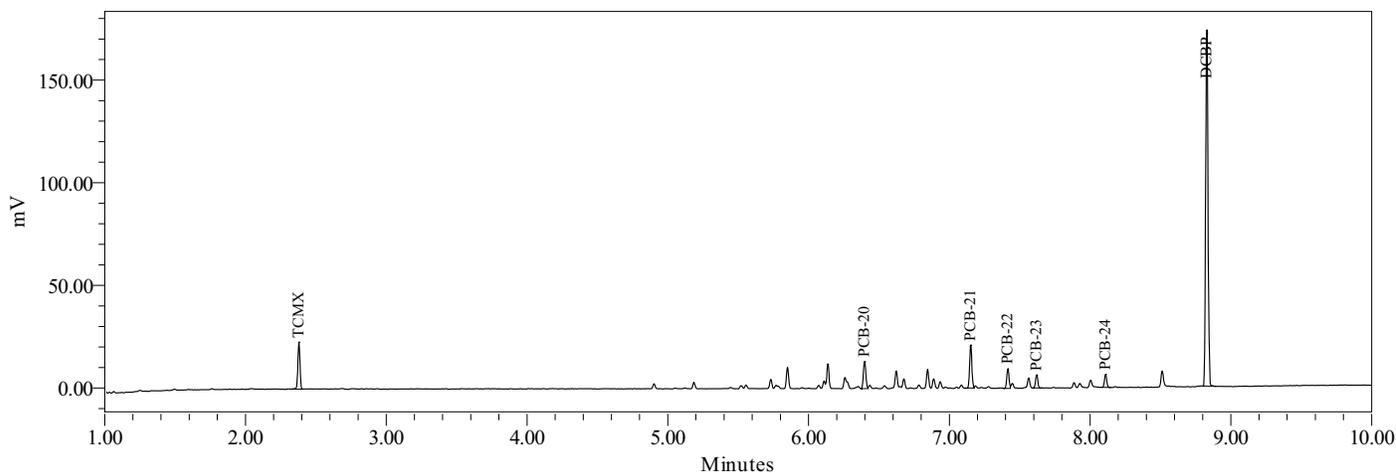
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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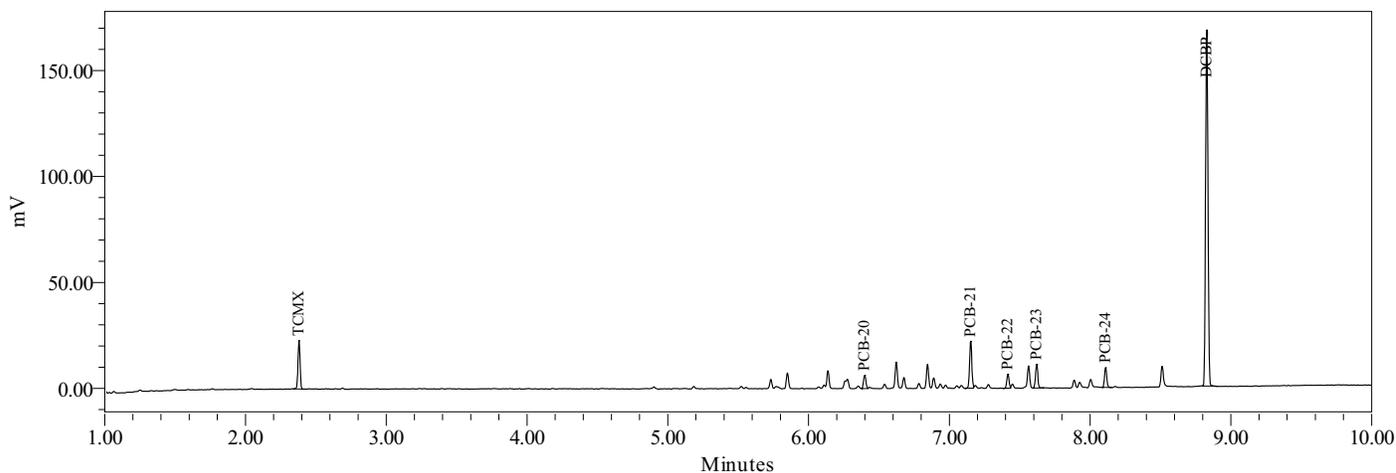
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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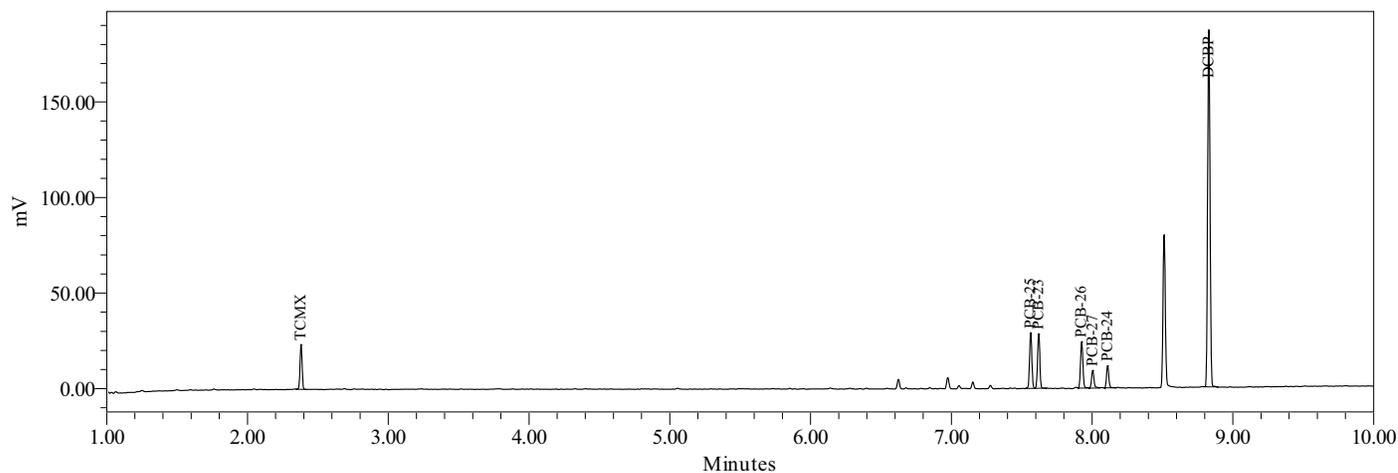
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |

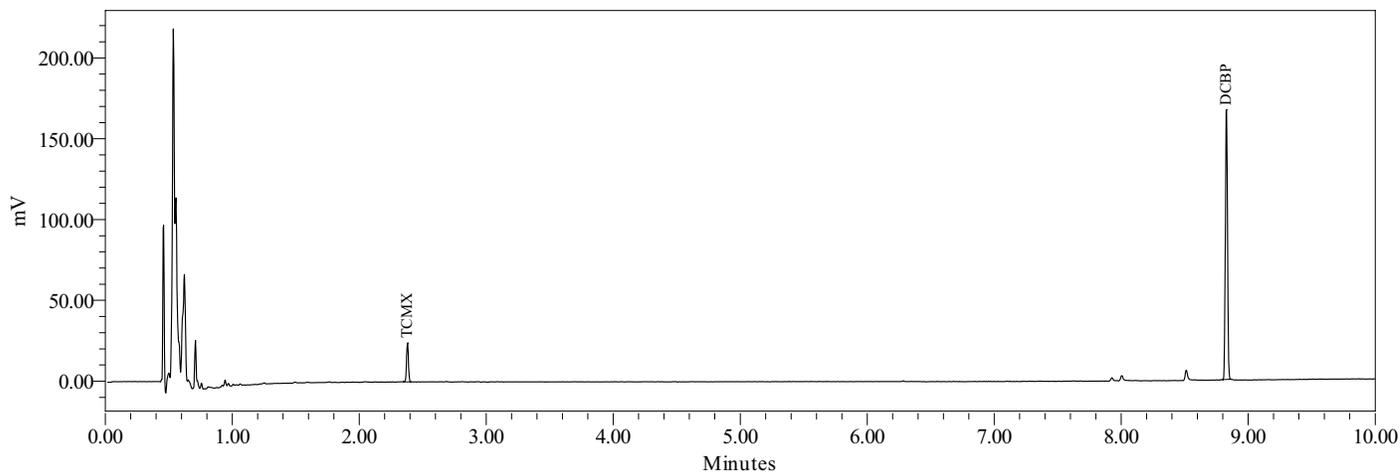


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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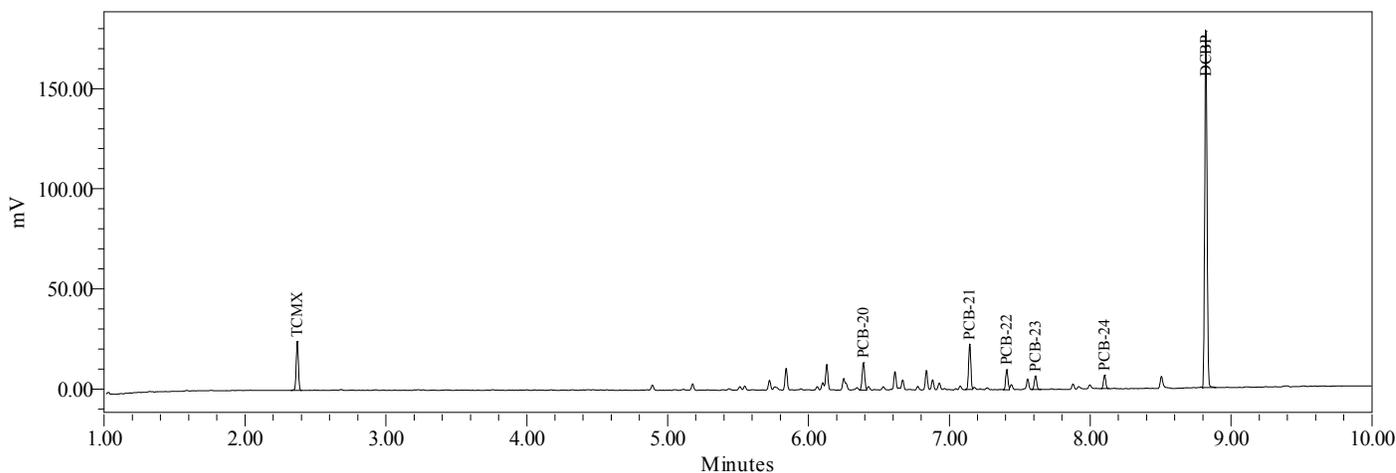
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS600601A               | Sample Amount:  | 1                       |
| Sample ID:         | A1260 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/1/2015 5:50:03 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/1/2015 5:59:56 PM EDT |
| Sample Set Name:   | GC28F_060115a           | User Name:      | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:57:55 AM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1630-25 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 26126         | 5.362                | 107.2       |             |
| 2 PCB-20  | 6.390          | bV               | 16692         |                      |             |             |
| 3 PCB-21  | 7.144          | bV               | 24776         |                      |             |             |
| 4 PCB-22  | 7.408          | bV               | 11162         |                      |             |             |
| 5 PCB-23  | 7.612          | bb               | 7832          |                      |             |             |
| 6 PCB-24  | 8.102          | bb               | 7305          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 212707        | 52.235               |             | 104.5       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16692               | 15.278               | -69.44              |        |      |
| 2 A 1254-17/18 | 16692               | 26.101               | -47.80              |        |      |
| 3 A 1260       | 67767               | 55.448               | 10.90               | X      |      |
| 4 A 1260-20    | 51075               | 58.643               | 17.29               |        |      |
| 5 A 1260-23/24 | 52630               | 53.253               | 6.51                |        |      |
| 6 A 1262       | 67767               | 52.990               | 5.98                |        |      |
| 7 A 1268       | 15137               | 6.325                | -87.35              |        |      |

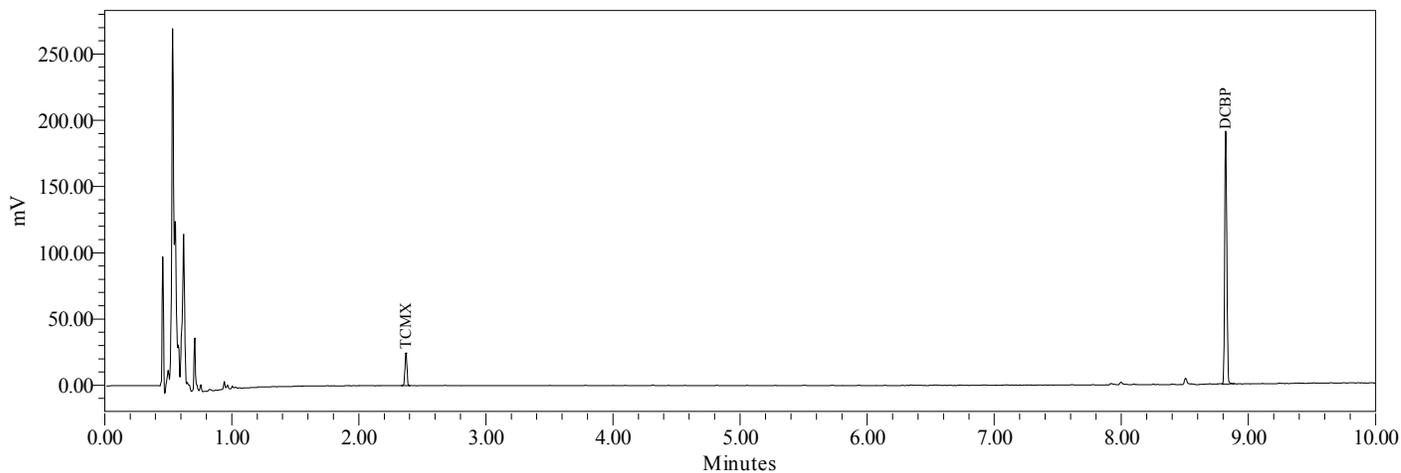


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150601B05               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/1/2015 6:03:55 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/1/2015 6:18:00 PM EDT |
| Sample Set Name:   | GC28F_060115a           | User Name:      | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:59:00 AM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1630-26 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | bb               | 26261         | 5.391                | 107.81464 |           |
| 2 | DCBP      | 8.821          | bb               | 223251        | 54.993               |           | 109.98601 |



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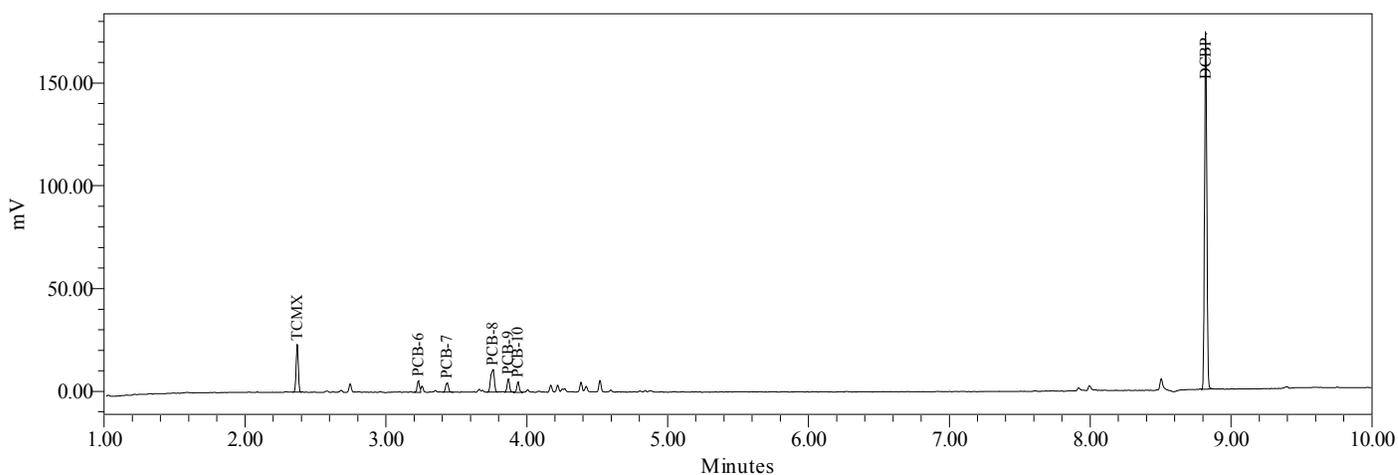
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS160601A               | Sample Amount:  | 1                       |
| Sample ID:         | A1016 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/1/2015 9:10:21 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/1/2015 9:20:47 PM EDT |
| Sample Set Name:   | GC28F_060115b           | User Name:      | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:58:11 AM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1630-36 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 24669         | 5.057                | 101.1       |             |
| 2 PCB-6   | 3.230          | bV               | 6196          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 6112          |                      |             |             |
| 4 PCB-8   | 3.759          | bb               | 19134         |                      |             |             |
| 5 PCB-9   | 3.870          | bb               | 7937          |                      |             |             |
| 6 PCB-10  | 3.938          | bb               | 5526          |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 204313        | 50.039               |             | 100.1       |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 44905               | 53.233               | 6.47                | X      |      |
| 2 A 1232     | 38708               | 88.732               | 77.46               |        |      |
| 3 A 1232-8/9 | 11638               | 56.650               | 13.30               |        |      |
| 4 A 1242     | 44905               | 68.117               | 36.23               |        |      |

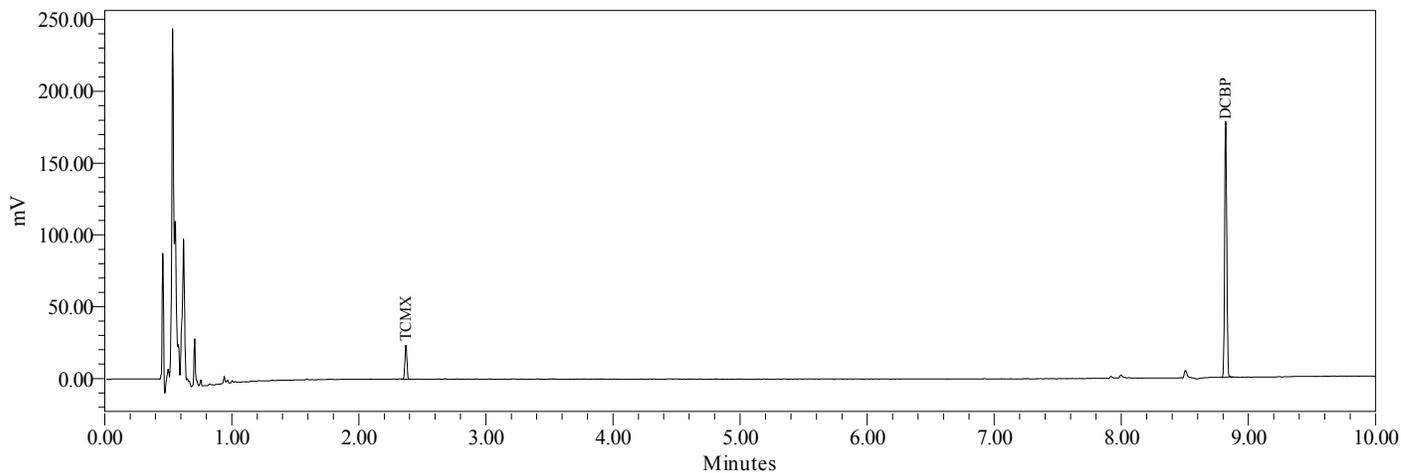


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|                    |                         |                 |                          |
|--------------------|-------------------------|-----------------|--------------------------|
| Sample Name:       | 150601B07               | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                        |
| Date Acquired:     | 6/1/2015 9:24:12 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/1/2015 11:07:49 PM EDT |
| Sample Set Name:   | GC28F_060115b           | User Name:      | Jared Acker (JaredA)     |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:59:21 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1630-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | bb               | 24942         | 5.114                | 102.28880 |           |
| 2 | DCBP      | 8.821          | bb               | 208416        | 51.112               |           | 102.22481 |



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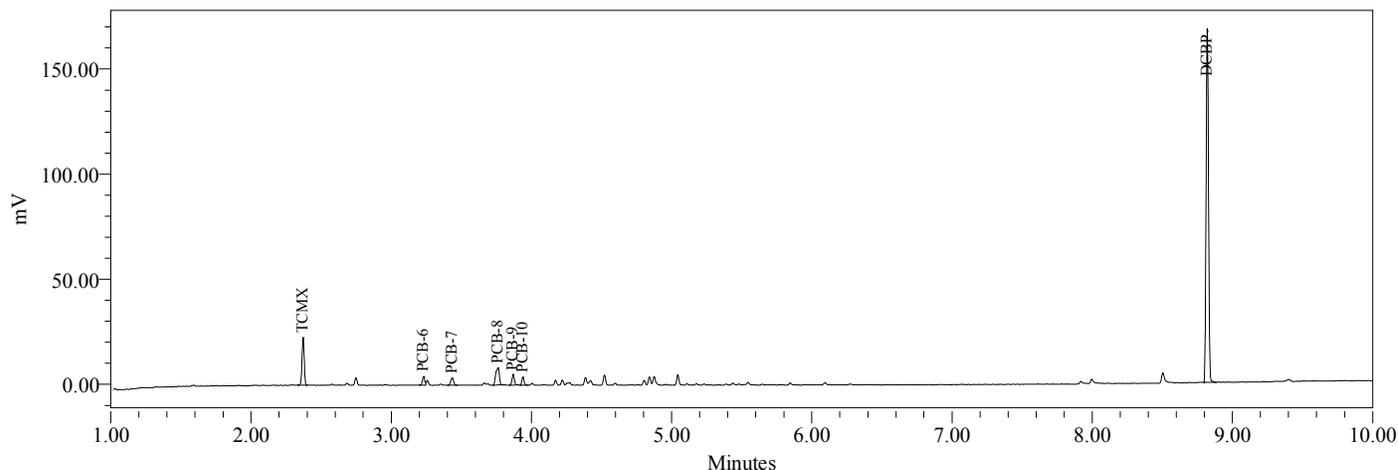
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS420602A               | Sample Amount:  | 1                            |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/2/2015 6:01:13 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 6:31:50 PM EDT      |
| Sample Set Name:   | GC28F_060215d           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:17:29 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1631-33 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 24165         | 4.952                | 99.0        |             |
| 2 PCB-6   | 3.231          | bV               | 4579          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 4666          |                      |             |             |
| 4 PCB-8   | 3.761          | bb               | 14245         |                      |             |             |
| 5 PCB-9   | 3.870          | bb               | 5941          |                      |             |             |
| 6 PCB-10  | 3.939          | bb               | 4017          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 196440        | 47.980               |             | 96.0        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 33447               | 39.605               | -20.79              |        |      |
| 2 A1232     | 28868               | 66.174               | 32.35               |        |      |
| 3 A1232-8/9 | 8683                | 42.147               | -15.71              |        |      |
| 4 A1242     | 33447               | 50.691               | 1.38                | X      |      |

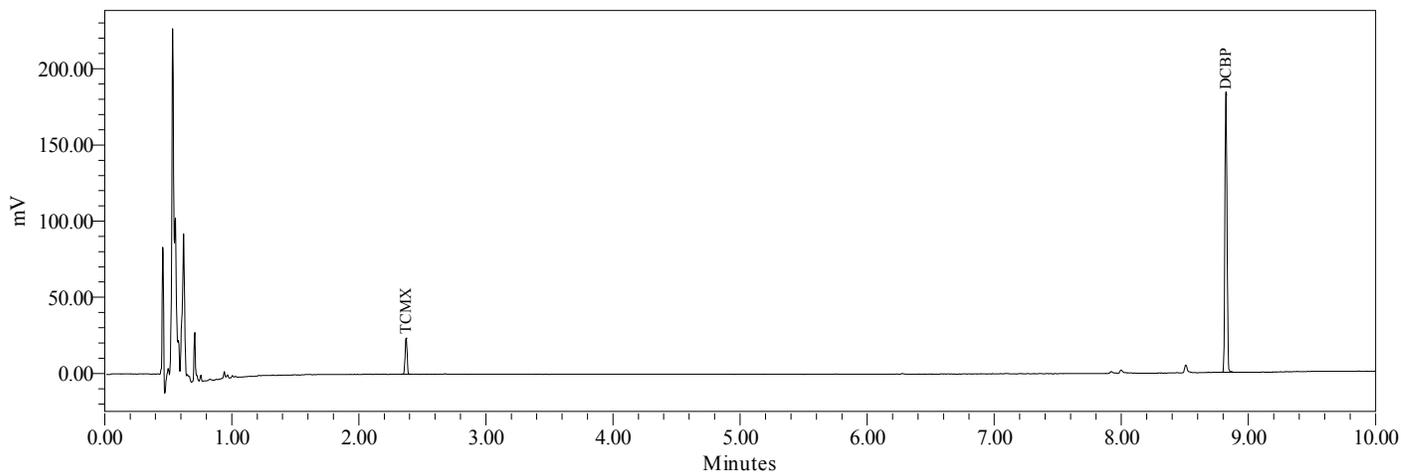


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150602B08               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/2/2015 6:15:04 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 6:32:05 PM EDT |
| Sample Set Name:   | GC28F_060215d           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:23:53 PM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1631-34 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | bb               | 25151         | 5.158                | 103.16282 |           |
| 2 | DCBP      | 8.823          | bb               | 211603        | 51.946               |           | 103.89222 |



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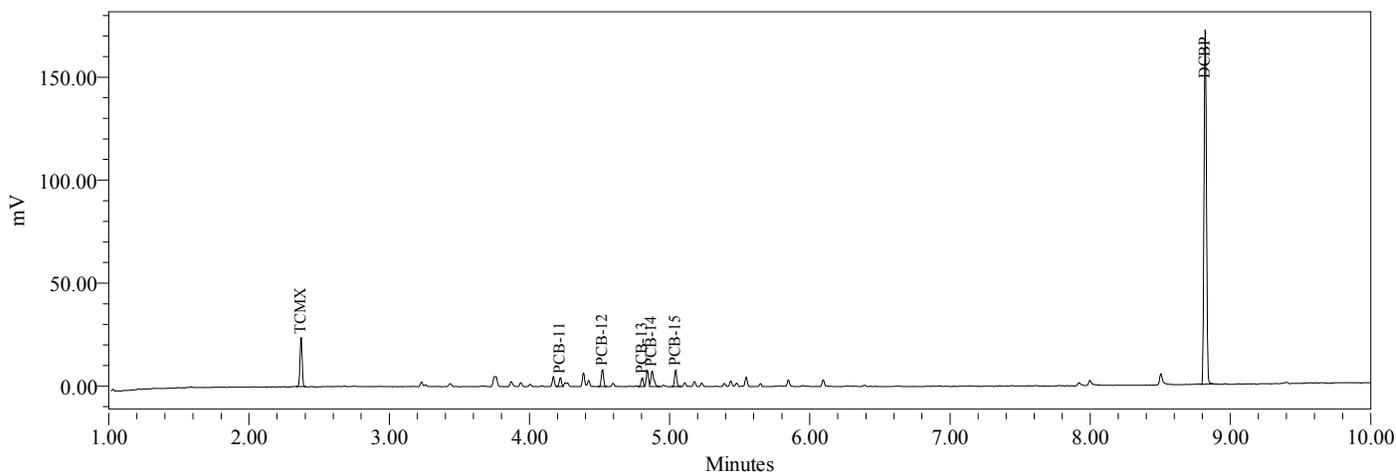
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS480602A               | Sample Amount:  | 1                            |
| Sample ID:         | A1248 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/2/2015 7:49:52 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 8:18:33 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:17:35 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1631-40 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 25177         | 5.164                | 103.3       |             |
| 2 PCB-11  | 4.220          | bV               | 4718          |                      |             |             |
| 3 PCB-12  | 4.521          | bb               | 9064          |                      |             |             |
| 4 PCB-13  | 4.804          | bV               | 4446          |                      |             |             |
| 5 PCB-14  | 4.874          | Vb               | 10871         |                      |             |             |
| 6 PCB-15  | 5.042          | bb               | 8948          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 204217        | 50.014               |             | 100.0       |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1248       | 38046               | 50.965               | 1.93                | X      |      |
| 2 A1248-11/15 | 24381               | 50.713               | 1.43                |        |      |
| 3 A1248-14/15 | 18228               | 50.881               | 1.76                |        |      |



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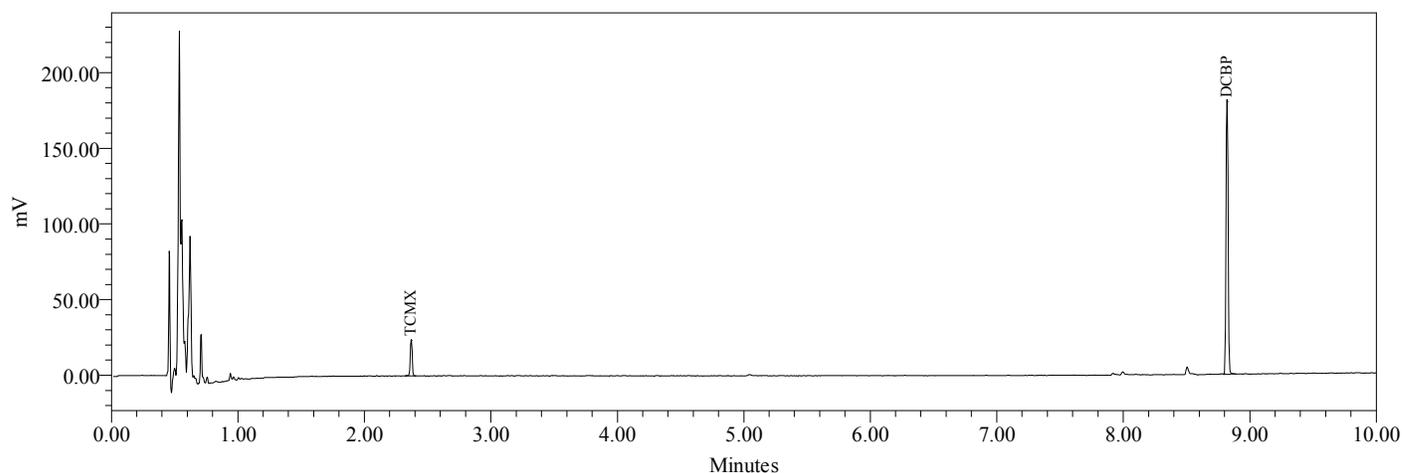
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Sample Name: 150602B09 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/2/2015 8:03:39 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/2/2015 8:18:52 PM EDT  
Sample Set Name: GC28F\_060215e User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/2/2015  
Run Time: 10.0 Minutes Current Time: 11:18:12 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1631-41 [m]

Peak Results

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25113         | 5.150                | 103.00313 |           |
| 2 DCBP    | 8.821          | bb               | 209653        | 51.436               |           | 102.87196 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-79</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11231B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1631-35</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/02/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/02/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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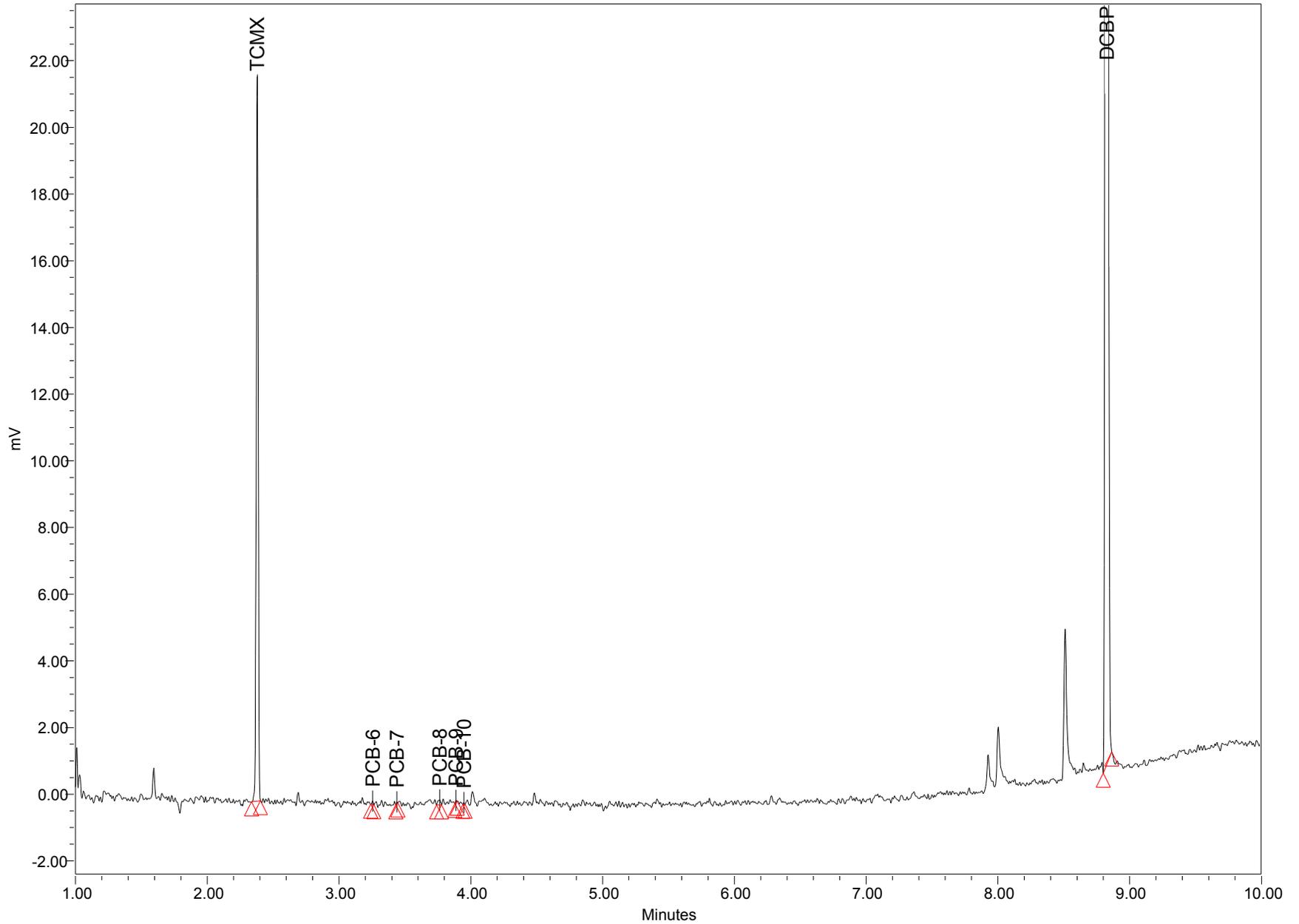
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11231B                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 6:40:01 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 8:30:25 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:16:47 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-35 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.379          | bb               | 22810         | 4.668                | 93.4        |             |
| 2 | PCB-6     | 3.254          | bb               | 74            |                      |             |             |
| 3 | PCB-7     | 3.439          | bb               | 31            |                      |             |             |
| 4 | PCB-8     | 3.763          | bb               | 214           |                      |             |             |
| 5 | PCB-9     | 3.888          | bb               | 35            |                      |             |             |
| 6 | PCB-10    | 3.947          | bb               | 28            |                      |             |             |
| 7 | DCBP      | 8.826          | bb               | 212243        | 52.114               |             | 104         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 382.8593            | 0.275                | 0.00137     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 308.6213            | 0.698                | 0.00349     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 59.4641             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 382.8593            | 0.404                | 0.00202     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11231B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-79</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11231L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1631-36</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/02/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/02/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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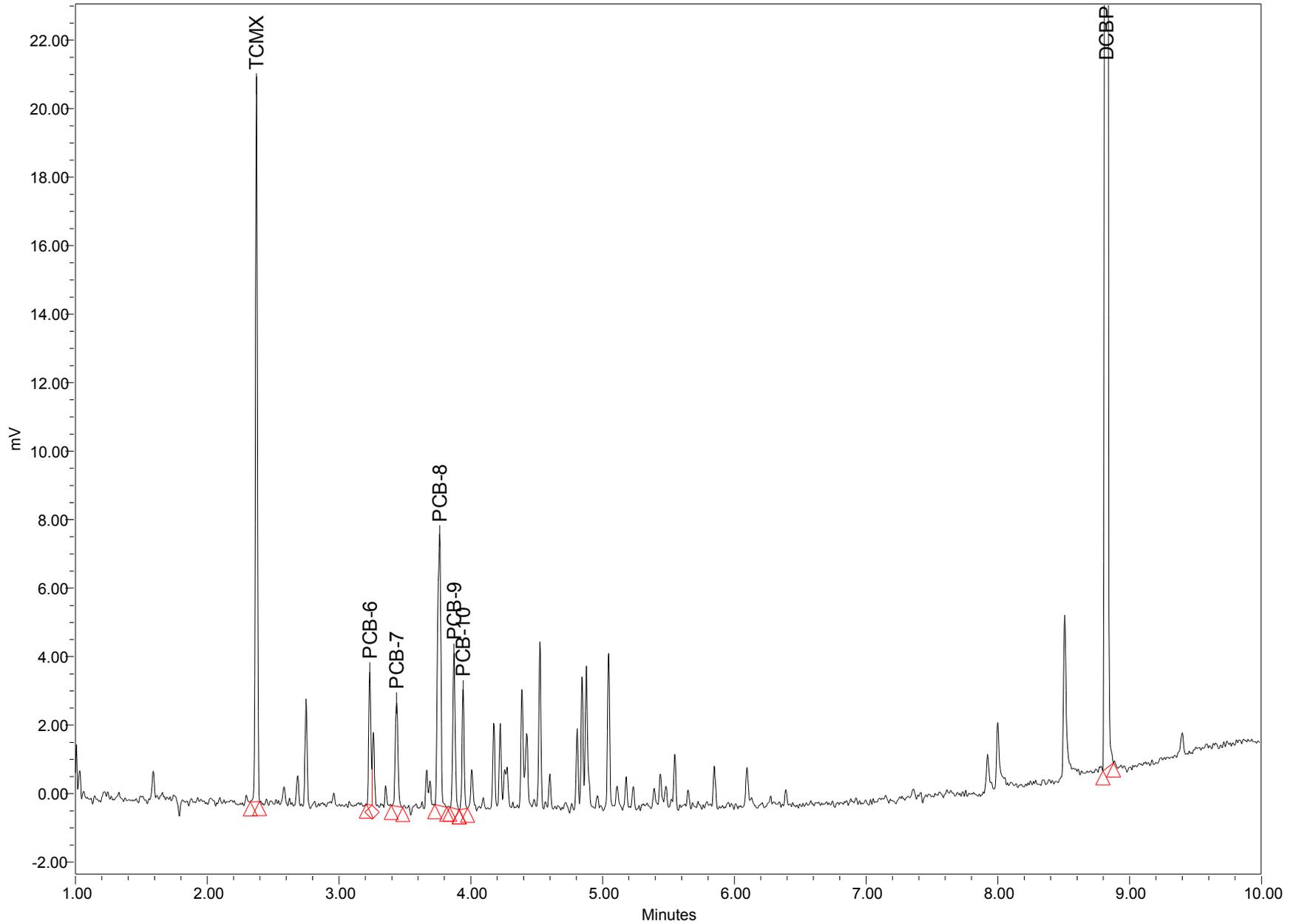
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11231L                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 6:54:09 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 8:31:39 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:16:51 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-36 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.373          | bb               | 21901         | 4.478                | 89.6        |             |
| 2 | PCB-6     | 3.233          | bV               | 4349          |                      |             |             |
| 3 | PCB-7     | 3.437          | bb               | 4338          |                      |             |             |
| 4 | PCB-8     | 3.763          | bb               | 13783         |                      |             |             |
| 5 | PCB-9     | 3.872          | bb               | 5765          |                      |             |             |
| 6 | PCB-10    | 3.941          | bb               | 3916          |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 208350        | 51.095               |             | 102         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32152.4246          | 38.065               | 0.19032     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27803.5616          | 63.732               | 0.31866     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8254.7786           | 40.045               | 0.20022     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32152.4246          | 48.722               | 0.24361     | 0.0250   | 0.00873  | X      |      |



SampleName AS11231L; Sample\_ID LAB CONTROL SPIKE

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-64</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11232B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1630-31</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/01/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/01/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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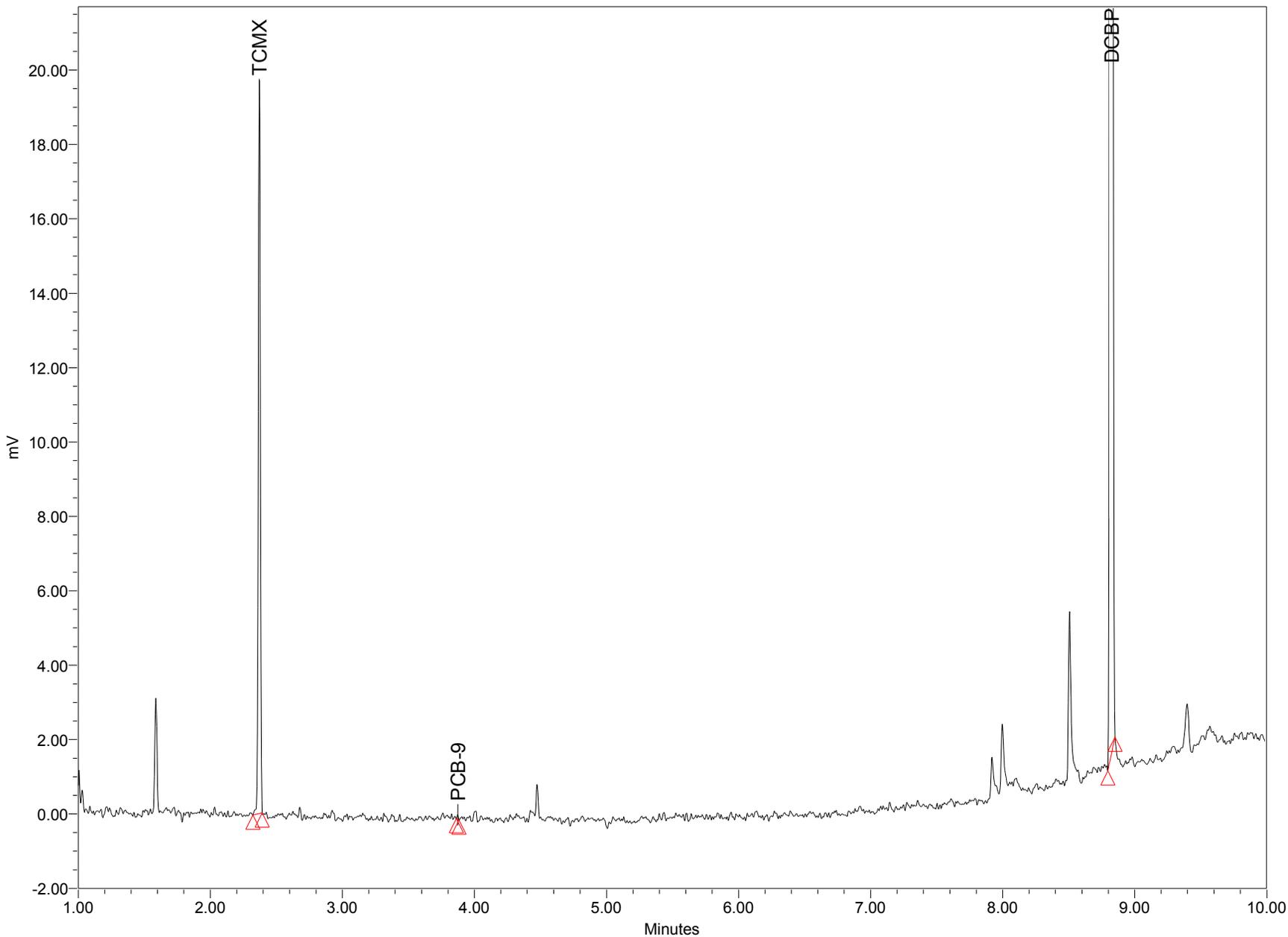
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11232B                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                       |
| Date Acquired:     | 6/1/2015 8:01:00 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/1/2015 9:54:24 PM EDT |
| Sample Set Name:   | GC28F_060115b           | User Name:          | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:59:57 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1630-31 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 20757         | 4.238                | 84.8        |             |
| 2 | PCB-9     | 3.874          | bb               | 85            |                      |             |             |
| 3 | DCBP      | 8.822          | BB               | 201844        | 49.393               |             | 98.8        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 85.4363             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1232     | 85.4363             | 0.186                | 0.00093     | 0.0250   | 0.00873  | NR     |      |
| 3 | A 1242     | 85.4363             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11232B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-64</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11232L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1630-32</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/01/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/01/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.238                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

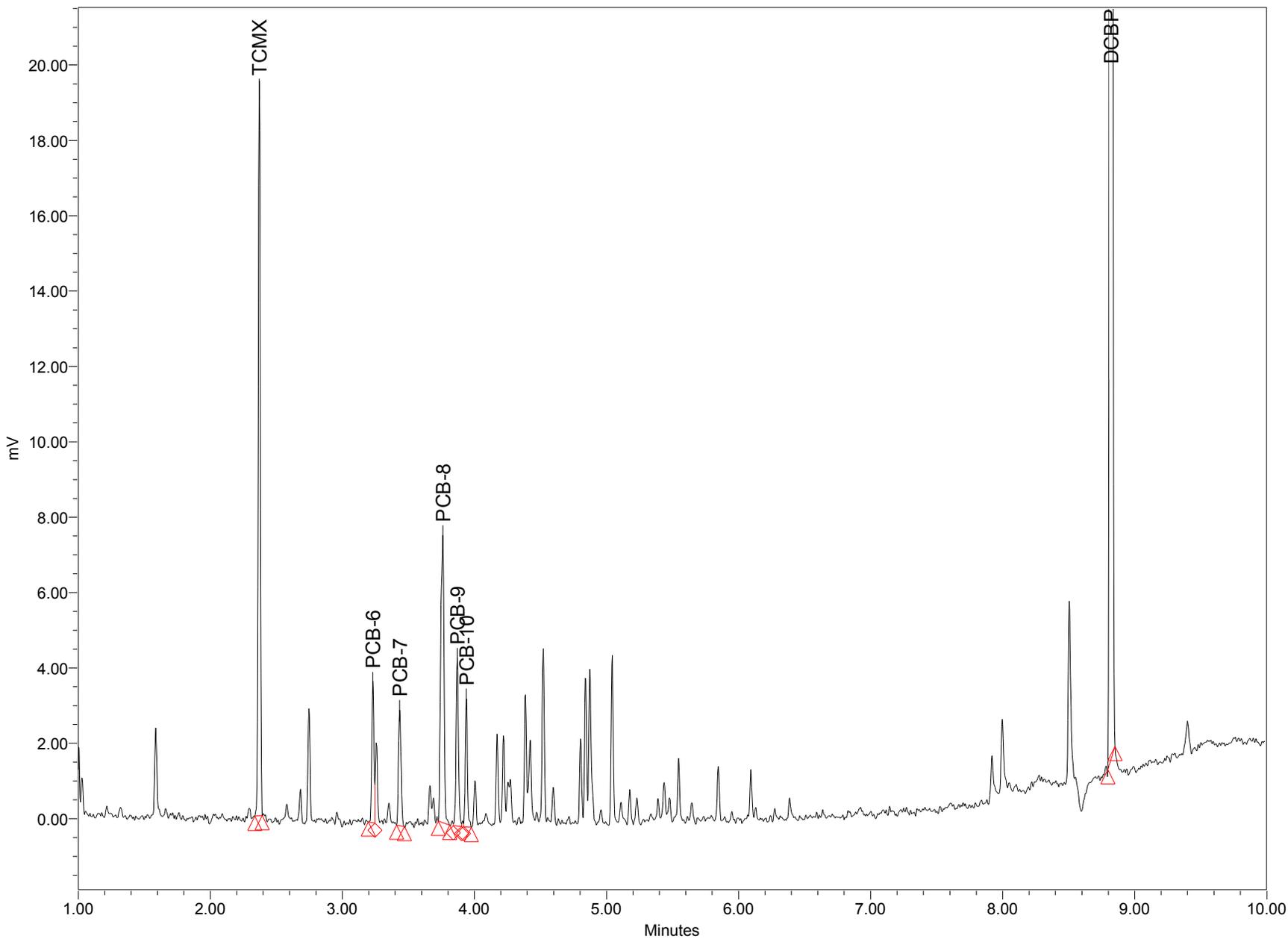
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11232L                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                       |
| Date Acquired:     | 6/1/2015 8:14:52 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/1/2015 9:54:47 PM EDT |
| Sample Set Name:   | GC28F_060115b           | User Name:          | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 12:00:13 PM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ug/L      | LIMS File ID:       | GC28F-1630-32 [A]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 20579         | 4.201                | 84.0        |             |
| 2 | PCB-6     | 3.231          | BV               | 4179          |                      |             |             |
| 3 | PCB-7     | 3.434          | BB               | 4252          |                      |             |             |
| 4 | PCB-8     | 3.760          | BB               | 13397         |                      |             |             |
| 5 | PCB-9     | 3.870          | VV               | 5626          |                      |             |             |
| 6 | PCB-10    | 3.939          | VB               | 3896          |                      |             |             |
| 7 | DCBP      | 8.821          | BB               | 194192        | 47.392               |             | 94.8        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 31349.5327          | 37.110               | 0.18555     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1232     | 27170.4703          | 62.281               | 0.31140     | 0.0250   | 0.00873  | NR     |      |
| 3 | A 1232-8/9 | 8147.9928           | 39.521               | 0.19760     | 0.0250   | 0.00873  | NR     |      |
| 4 | A 1242     | 31349.5327          | 47.501               | 0.23750     | 0.0250   | 0.00873  | X      |      |



— SampleName AS11232L; Sample\_ID LAB CONTROL SPIKE

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |   |
|--|---|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060005</u>                     |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060005-02MS</u>                |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150601110234 MS</u> |
| Sample wt(Dry)/vol: <u>900 mL</u>                                      | Lab Sample ID: <u>AS11232M</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1630-33</u>           |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/01/2015</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/01/2015</u>           |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/01/2015</u>            |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                   |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                  |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0278                | U |
| 11104-28-2 | Aroclor 1221  | 0.0278                | U |
| 11141-16-5 | Aroclor 1232  | 0.0278                | U |
| 53469-21-9 | Aroclor 1242  | 0.307                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0278                | U |
| 11097-69-1 | Aroclor 1254  | 0.0278                | U |
| 11096-82-5 | Aroclor 1260  | 0.0278                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

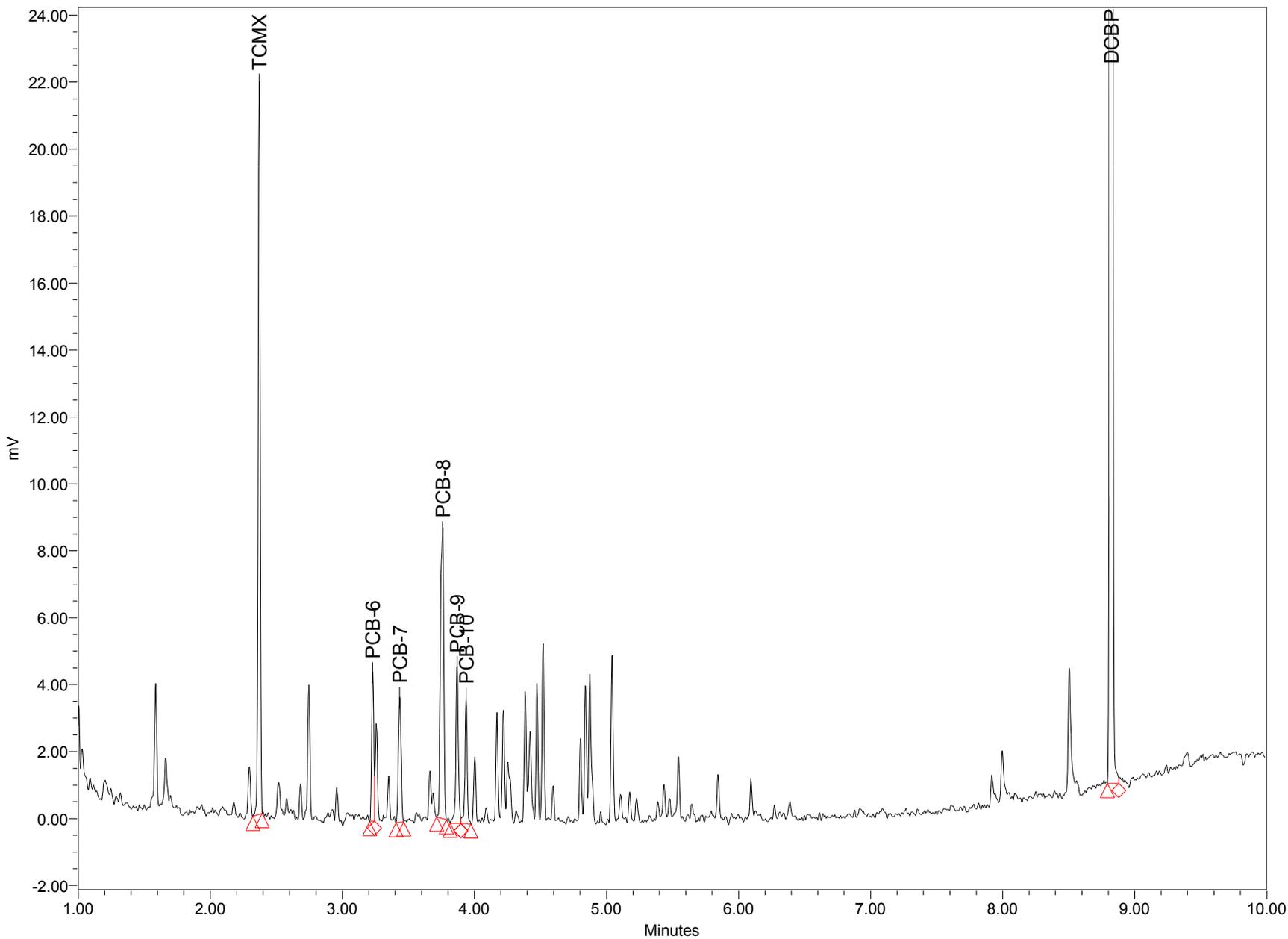
|                    |                           |                     |                         |
|--------------------|---------------------------|---------------------|-------------------------|
| Sample Name:       | AS11232M                  | Sample Amount (L) : | 0.9000                  |
| Sample ID:         | FRS-WAFA-T150601110234 MS | Dilution:           | 5                       |
| Date Acquired:     | 6/1/2015 8:28:29 PM EDT   | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015            | Date Processed:     | 6/1/2015 9:57:35 PM EDT |
| Sample Set Name:   | GC28F_060115b             | User Name:          | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215         | Current Date:       | 6/2/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:       | 12:00:27 PM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ug/L        | LIMS File ID:       | GC28F-1630-33 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.370          | BB               | 23285         | 4.767                | 95.3        |             |
| 2 | PCB-6     | 3.230          | BV               | 4826          |                      |             |             |
| 3 | PCB-7     | 3.435          | BB               | 5476          |                      |             |             |
| 4 | PCB-8     | 3.758          | BB               | 15334         |                      |             |             |
| 5 | PCB-9     | 3.868          | BV               | 6342          |                      |             |             |
| 6 | PCB-10    | 3.937          | VB               | 4492          |                      |             |             |
| 7 | DCBP      | 8.821          | bv               | 162560        | 39.117               |             | 78.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 36469.7776          | 43.200               | 0.24000     | 0.0278   | 0.00971  | NR     |      |
| 2 | A 1232     | 31643.4893          | 72.536               | 0.40298     | 0.0278   | 0.00971  | NR     |      |
| 3 | A 1232-8/9 | 9967.9790           | 48.455               | 0.26919     | 0.0278   | 0.00971  | NR     |      |
| 4 | A 1242     | 36469.7776          | 55.288               | 0.30716     | 0.0278   | 0.00971  | X      |      |



SampleName AS11232M; Sample\_ID FRS-WAFA-T150601110234 MS

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060005

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-LOC5-T150601110302  
**Lab Sample ID:** 15060005-01 (AS11231)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/01/2015 13:00  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1631-37 | NE273_04 (Quick TAT Aroclor Method) | 06/02/2015 19:08 | JRS     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30913             | EPA 3535A                           | 06/02/2015 14:16 | KEN     | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-37 |
| Aroclor 1221          | 11104-28-2 | <b>0.0619</b> | 0.0250 | 1.00            | PB    | GC28F-1631-37 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-37 |
| Aroclor 1242          | 53469-21-9 | <b>0.0182</b> | 0.0250 | 1.00            | AD,J  | GC28F-1631-37 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-37 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-37 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-37 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0801</b> |        | 1.00            |       | GC28F-1631-37 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 94.8       | 70.0-130   |                | GC28F-1631-37 |
| Decachlorobiphenyl      | 2051-24-3 | 76.2       | 70.0-130   |                | GC28F-1631-37 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060005

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-WAFA-T150601110234  
**Lab Sample ID:** 15060005-02 (AS11232)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/01/2015 13:00  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1630-35 | NE273_04 (Quick TAT Aroclor Method) | 06/01/2015 20:56 | JKA     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30897         | EPA 3535A                           | 06/01/2015 13:25 | KEN     | 920 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0272 | 1.00            | U     | GC28F-1630-35 |
| Aroclor 1221          | 11104-28-2 | <b>0.0866</b> | 0.0272 | 1.00            | PB    | GC28F-1630-35 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0272 | 1.00            | U     | GC28F-1630-35 |
| Aroclor 1242          | 53469-21-9 | <b>0.0369</b> | 0.0272 | 1.00            | AD    | GC28F-1630-35 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0272 | 1.00            | U     | GC28F-1630-35 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0272 | 1.00            | U     | GC28F-1630-35 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0272 | 1.00            | U     | GC28F-1630-35 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1235</b> |        | 1.00            |       | GC28F-1630-35 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 89.6       | 70.0-130   |                | GC28F-1630-35 |
| Decachlorobiphenyl      | 2051-24-3 | 73.2       | 70.0-130   |                | GC28F-1630-35 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060005

ELAP ID No: 11078

Duplicate Lab ID No: AS11232D

Date Analyzed: 06/01/2015

Original Lab ID No: AS11232

| TEST PARAMETER         | ORIGINAL SAMPLE RESULT (mg/L) | DUPLICATE SAMPLE RESULT (mg/L) | RELATIVE <sup>1</sup> PERCENT DIFFERENCE (RPD) # |
|------------------------|-------------------------------|--------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 15.9                          | 15.6                           | 2.27   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2106 Date In Oven: 06/01/2015 Temp: 103.3 degree C Analyst: Jeanne Shoulder

**Finish:** STD Lot # 060105B9P11 Date Out Oven: 06/02/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29089   | BLANK-62       | AS11231B      | L      | <input checked="" type="checkbox"/> | 14:55        | 08:33         | 7FL        | 1000             | 0.1122         | 0.1120       | -0.2              |                    |       |      |          |
| 29090   | LCS-62         | AS11231L      | L      | <input checked="" type="checkbox"/> | 14:55        | 08:33         | 7FM        | 250              | 0.1076         | 0.1311       | 94                | 100                | 94.0  |      |          |
| 29088   | 15060005-01    | AS11231       | L      | <input checked="" type="checkbox"/> | 14:55        | 08:33         | 7FN        | 920              | 0.1085         | 0.1145       | 6.52              |                    |       |      |          |
| 29091   | 15060005-02    | AS11232       | L      | <input checked="" type="checkbox"/> | 14:55        | 08:33         | 7FO        | 740              | 0.1114         | 0.1232       | 15.9              |                    |       |      |          |
| 29092   | 15060005-02DUP | AS11232D      | L      | <input checked="" type="checkbox"/> | 14:55        | 08:33         | 7FP        | 680              | 0.1099         | 0.1205       | 15.6              |                    |       | 2.27 |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: *Quillian McGlynn*  
 Quillian McGlynn

Peer Review: *Judith Minholz*  
 Judith Minholz

PrintDate: 6/9/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060005

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/01/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150601110302 | <b>Received Date:</b> 06/01/2015 13:00   |
| <b>Lab Sample ID:</b> 15060005-01 (AS11231)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2106 | SM 2540D | 06/01/2015 14:55 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 6.52          | 1.09 | 1.09            |       | 2106    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060005

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/01/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150601110234 | <b>Received Date:</b> 06/01/2015 13:00   |
| <b>Lab Sample ID:</b> 15060005-02 (AS11232)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2106 | SM 2540D | 06/01/2015 14:55 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 15.9          | 1.35 | 1.35            |       | 2106    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** May 30, 2015, May 31, 2015, June 01, 2015

**Lab Report ID:** 15060021

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 08, 2015

CASE NARRATIVE

This data package (SDG ID: 15060021) consists of 9 water samples received on 6/2/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS11329              | NRS-162.90-T150601110550 | 5/30/2015 06:00        |
| AS11330              | NRS-162.90-T150601110623 | 5/31/2015 06:00        |
| AS11331              | NRS-162.90-T150601110651 | 6/1/2015 06:00         |
| AS11332              | NRS-186.00-T150601110857 | 5/31/2015 06:00        |
| AS11333              | NRS-186.00-T150601110922 | 5/30/2015 06:00        |
| AS11334              | NRS-186.00-T150601110951 | 6/1/2015 06:00         |
| AS11335              | NRS-187.70-T150601110724 | 5/30/2015 06:00        |
| AS11336              | NRS-187.70-T150601110752 | 5/31/2015 06:00        |
| AS11337              | NRS-187.70-T150601110823 | 6/1/2015 06:00         |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/2/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Sample (LAB ID: AS11337) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Montvale, NJ 07643 Ph: 201-930-9990  
 Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150601150625PACE  
 Sample Custodian: JR  
 Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD   | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|----------|----|-----|----|------------------------|--------------|
| 001               | NRS-162.90-T150601110550 | ENV   | W         | 05/30/2015     | 06:00          | W      | 3            | AS11329                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 002               | NRS-162.90-T150601110623 | ENV   | W         | 05/31/2015     | 06:00          | W      | 3            | AS11330                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
| 003               | NRS-162.90-T150601110651 | ENV   | W         | 06/01/2015     | 06:00          | W      | 3            | AS11331                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
| 004               | NRS-186.00-T150601110857 | ENV   | W         | 05/31/2015     | 06:00          | W      | 3            | AS11332                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 005               | NRS-186.00-T150601110922 | ENV   | W         | 05/30/2015     | 06:00          | W      | 3            | AS11333                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
| 006               | NRS-186.00-T150601110951 | ENV   | W         | 06/01/2015     | 06:00          | W      | 3            | AS11334                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 007               | NRS-187.70-T150601110724 | ENV   | W         | 05/30/2015     | 06:00          | W      | 3            | AS11335                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |

Comments: Temp 3.7°C 2.5 3.8

| Relinquished by:        | Received by:            | Relinquished by:        | Received by:            | Relinquished by:        | Received by:            |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Signature: J. Rose      | Signature: M. Conway    | Signature: M. Conway    | Signature: J. Rose      | Signature: J. Rose      | Signature: M. Conway    |
| Print Name: J. Rose     | Print Name: M. Conway   | Print Name: M. Conway   | Print Name: J. Rose     | Print Name: J. Rose     | Print Name: M. Conway   |
| Company: AQ             | Company: PACE           |
| Date/Time: 6/2/15 11:15 | Date/Time: 6/2/15 12:15 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 |

Date Printed: 6/1/2015

\* S = SEDIMENT, W = WATER, PW = PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 2



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-936-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150601150625PACE

Sample Custodian: JR

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD   | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|----------|----|-----|----|------------------------|--------------|
| 008               | NRS-187.70-T150601110752 | ENV   | W         | 05/31/2015     | 06:00          | W      | 3            | AS11336                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 009               | NRS-187.70-T150601110823 | ENV   | W         | 06/01/2015     | 06:00          | W      | 3            | AS11337                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |

Comments: Temp 3.7°C 2.5 3.8

| Relinquished by:        | Received by:            | Relinquished by:        | Received by:            | Relinquished by:        | Received by:           |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|
| Signature: [Signature]  | Signature: [Signature] |
| Print Name: J Koels     | Print Name: [Name]      | Print Name: [Name]      | Print Name: [Name]      | Print Name: [Name]      | Print Name: [Name]     |
| Company: AQ             | Company: Pace           | Company: Pace           | Company: Pace           | Company: Pace           | Company: Pace          |
| Date/Time: 6/2/15 11:15 | Date/Time: 6/2/15 12:15 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 | Date/Time: [Date/Time] |

Date Printed: 6/1/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

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Sample Condition Upon Receipt

<15060021P3>



CLIENT NAME: GE  
PROJECT: RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
TRACKING # N/A CUSTODY SEAL PRESENT: Yes  No   
PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other   
THERMOMETER USED: #164  IR Gun 03  #122087967   
BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

INTACT: Yes  No   
ICE USED: Wet  Blue  None   
COOLER TEMPERATURE (°C): 3.7°C, 2.5, 3.8°C  
Temp should be above freezing to 6°C

COMMENTS:

|  |  |   |
|--|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 7. <u>72 hour</u>                       |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.                                     |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 12.                                     |
| - Includes date/time/ID/Analysis   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.                                     |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| - Exceptions that are not checked: VOA   |  |   |
| Initial when completed:  | <u>N/A</u>   | Lot # of added preservative: <u>N/A</u> |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                                     |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                                     |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Pace Trip Blank Lot #:   | <u>N/A</u>   |   |

Sample Receipt form filled in: ASB 6/2/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): JG 6/2/15  
Log In (Includes notifying PM of any discrepancies and documenting in LIMS): ASB 6/2/15  
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): JG 6/2/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060021

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060021  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*72 HOUR\*

**RECEIVED DATE:** 6/2/2015 12:47  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 3  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.7, 2.5, 3.8 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| NRS-162.90-T150601110550 (AS11329) | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-162.90-T150601110623 (AS11330) | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-162.90-T150601110651 (AS11331) | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150601110857 (AS11332) | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150601110922 (AS11333) | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150601110951 (AS11334) | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150601110724 (AS11335) | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/30/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150601110752 (AS11336) | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 5/31/2015 06:00   | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150601110823 (AS11337) | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-05-15        | 6/1/2015 06:00    | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/03/15

Batch ID: 30922

Method: EPA 3535A

Initial for required Clean Up Steps

| ID | Prep ID | LAB Sample ID | Alt Sample ID | Matrix | pH | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | KEN                       |                          | KEN                         | KEN                   | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |
|----|---------|---------------|---------------|--------|----|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|---------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|
|    |         |               |               |        |    |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD) | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |
| 1  | 307336  | PBLK-87       | AS11329B      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 2  | 307335  | LCS-87        | AS11329L      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 3  | 307326  | 15060021-01   | AS11329       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 4  | 307327  | 15060021-02   | AS11330       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 980                     | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 5  | 307328  | 15060021-03   | AS11331       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1030                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 6  | 307329  | 15060021-04   | AS11332       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 980                     | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 7  | 307330  | 15060021-05   | AS11333       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 980                     | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 8  | 307331  | 15060021-06   | AS11334       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 980                     | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 9  | 307332  | 15060021-07   | AS11335       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 10 | 307333  | 15060021-08   | AS11336       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1060                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |
| 11 | 307334  | 15060021-09   | AS11337       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/03                     | NA                       | 06/03                       | 06/03                 | 5                   | 06/03             |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar) CURRENT              | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Jessica Ramdass*

Jessica Ramdass

Peer Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060021**

**Batch ID: 30922**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11329B      | GC28F-1632-55 | Water  | 06/03/15  | 1000                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11329L      | GC28F-1632-56 | Water  | 06/03/15  | 1000                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11329       | GC28F-1632-57 | Water  | 06/03/15  | 1000                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11330       | GC28F-1632-58 | Water  | 06/03/15  | 980                  | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11331       | GC28F-1632-61 | Water  | 06/03/15  | 1030                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11332       | GC28F-1632-62 | Water  | 06/03/15  | 980                  | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11333       | GC28F-1632-63 | Water  | 06/03/15  | 980                  | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11334       | GC28F-1632-64 | Water  | 06/03/15  | 980                  | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11335       | GC28F-1632-65 | Water  | 06/03/15  | 1000                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11336       | GC28F-1632-66 | Water  | 06/03/15  | 1060                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11337RR1    | GC28F-1633-5  | Water  | 06/03/15  | 1070                 | 5               | NA              |               | 1              | NA                | 5x               | Amie Hamilton    | NA               |

**COMMENTS:** \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060021

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-87        | AS11329B      | GC28F-1632-55 | 88.6                   | 101                    |           |           | 0         |
| LCS-87         | AS11329L      | GC28F-1632-56 | 88.7                   | 98.7                   |           |           | 0         |
| 15060021-01    | AS11329       | GC28F-1632-57 | 86.4                   | 74.5                   |           |           | 0         |
| 15060021-02    | AS11330       | GC28F-1632-58 | 91.2                   | 76.1                   |           |           | 0         |
| 15060021-03    | AS11331       | GC28F-1632-61 | 89.9                   | 76.8                   |           |           | 0         |
| 15060021-04    | AS11332       | GC28F-1632-62 | 89.0                   | 75.5                   |           |           | 0         |
| 15060021-05    | AS11333       | GC28F-1632-63 | 88.3                   | 73.9                   |           |           | 0         |
| 15060021-06    | AS11334       | GC28F-1632-64 | 85.7                   | 76.4                   |           |           | 0         |
| 15060021-07    | AS11335       | GC28F-1632-65 | 91.7                   | 79.1                   |           |           | 0         |
| 15060021-08    | AS11336       | GC28F-1632-66 | 90.2                   | 76.6                   |           |           | 0         |
| 15060021-09RR1 | AS11337RR1    | GC28F-1633-5  | 90.7                   | 83.2                   |           |           | 0         |

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# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060021</u>                           |
| LCS Lab ID: <u>LCS-87</u>                | Blank Sample ID: <u>PBLK-87</u>                   |
| LCS File ID: <u>GC28F-1632-56</u>        | Method Blank File ID: <u>GC28F-1632-55</u>        |
| LCS Inj Date: <u>06/04/2015 00:22:33</u> | Method Blank Inj Date: <u>06/04/2015 00:08:31</u> |
| LCS ID: <u>AS11329L</u>                  | Method Blank ID: <u>AS11329B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.238                       | 95.2                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060021</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-87</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11329B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1632-55</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/03/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/04/2015</u>  |
|  | Time Analyzed: <u>00:08:31</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-87(LAB CONTROL SPIKE) | AS11329L         | GC28F-1632-56  | 06/04/2015 00:22:33     |
| NRS-162.90-T150601110550  | AS11329          | GC28F-1632-57  | 06/04/2015 00:36:09     |
| NRS-162.90-T150601110623  | AS11330          | GC28F-1632-58  | 06/04/2015 00:50:06     |
| NRS-162.90-T150601110651  | AS11331          | GC28F-1632-61  | 06/04/2015 01:31:03     |
| NRS-186.00-T150601110857  | AS11332          | GC28F-1632-62  | 06/04/2015 01:44:28     |
| NRS-186.00-T150601110922  | AS11333          | GC28F-1632-63  | 06/04/2015 01:58:30     |
| NRS-186.00-T150601110951  | AS11334          | GC28F-1632-64  | 06/04/2015 02:12:25     |
| NRS-187.70-T150601110724  | AS11335          | GC28F-1632-65  | 06/04/2015 02:25:59     |
| NRS-187.70-T150601110752  | AS11336          | GC28F-1632-66  | 06/04/2015 02:39:36     |
| NRS-187.70-T150601110823  | AS11337RR1       | GC28F-1633-5   | 06/04/2015 10:38:15     |

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# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-01</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150601110550</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11329</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-57</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0364                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0141                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11329                  | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | NRS-162.90-T150601110550 | Dilution:           | 5                       |
| Date Acquired:     | 6/4/2015 12:36:09 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 9:59:13 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:26:31 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-57 [m]       |

**Peak Results**

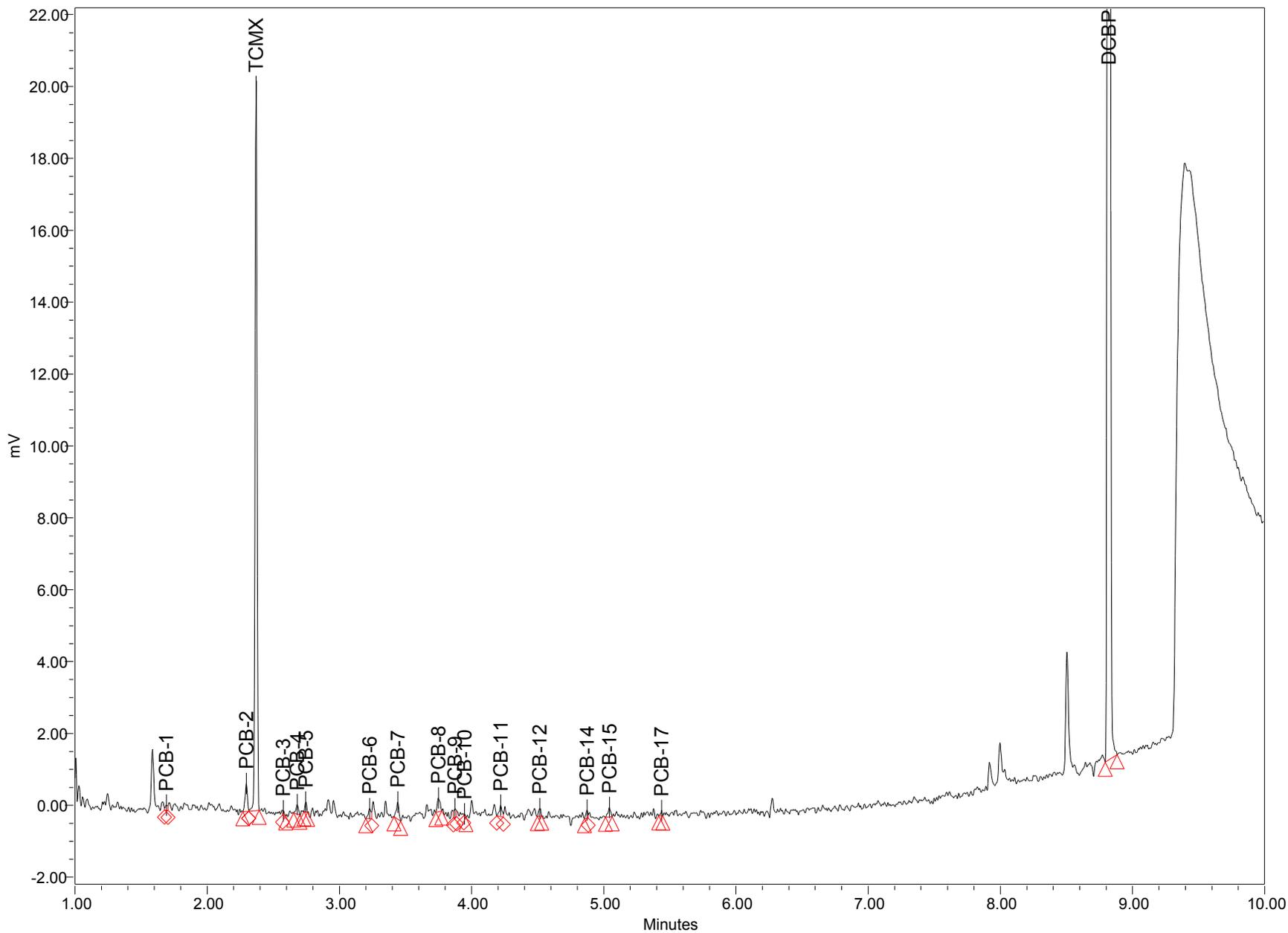
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.692          | Vv               | 187           |                      |             |             |
| 2  | PCB-2     | 2.296          | BV               | 949           |                      |             |             |
| 3  | TCMX      | 2.370          | VB               | 21142         | 4.319                | 86.4        |             |
| 4  | PCB-3     | 2.574          | vb               | 104           |                      |             |             |
| 5  | PCB-4     | 2.680          | BB               | 336           |                      |             |             |
| 6  | PCB-5     | 2.746          | bb               | 242           |                      |             |             |
| 7  | PCB-6     | 3.229          | BV               | 404           |                      |             |             |
| 8  | PCB-7     | 3.442          | bB               | 656           |                      |             |             |
| 9  | PCB-8     | 3.749          | Bb               | 574           |                      |             |             |
| 10 | PCB-9     | 3.875          | vv               | 296           |                      |             |             |
| 11 | PCB-10    | 3.947          | vb               | 47            |                      |             |             |
| 12 | PCB-11    | 4.220          | VV               | 456           |                      |             |             |
| 13 | PCB-12    | 4.516          | BB               | 248           |                      |             |             |
| 14 | PCB-14    | 4.873          | BV               | 232           |                      |             |             |
| 15 | PCB-15    | 5.043          | BB               | 367           |                      |             |             |
| 16 | PCB-17    | 5.437          | BB               | 118           |                      |             |             |
| 17 | DCBP      | 8.820          | Bb               | 155373        | 37.237               |             | 74.5        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 1976.5752           | 2.171                | 0.01085     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 1818.3588           | 7.290                | 0.03645     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 869.6768            | 4.253                | 0.02126     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 1576.6696           | 12.916               | 0.06458     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 1814.6889           | 4.150                | 0.02075     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 945.0715            | 4.164                | 0.02082     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 1976.5752           | 2.828                | 0.01414     | 0.0250   | 0.00873  | X      | AD,J |
| 8 | A1248       | 1302.8358           | 1.242                | 0.00621     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1248-11/15 | 480.2930            | 0.978                | 0.00489     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 704.0148            | 1.651               | 0.00825     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 117.7616            | 0.376               | 0.00188     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-19/20 | 117.7616            | 0.356               | 0.00178     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-20    | 117.7616            | 0.463               | 0.00231     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11329; Sample\_ID NRS-162.90-T150601110550



|                    |                          |                      |                     |
|--------------------|--------------------------|----------------------|---------------------|
| Lab ID:            | AS11329                  | Current Date Time:   | 6/8/2015 11:18:40   |
| Sample ID:         | NRS-162.90-T150601110550 | LIMS File ID:        | GC28F-1632-57       |
| Matrix:            | Water                    | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/4/2015 12:36:09 AM     | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215        |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{1818.358812 - -16.185578}{251.658479} = 7.28982 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{7.28982 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1000 \text{ mL}} = 0.0364 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-02</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150601110623</u> |
| Sample wt(Dry)/vol: <u>980 mL</u>                                      | Lab Sample ID: <u>AS11330</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-58</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0498                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0128                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11330                  | Sample Amount (L) : | 0.9800                   |
| Sample ID:         | NRS-162.90-T150601110623 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 12:50:06 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:01:06 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:26:37 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-58 [m]        |

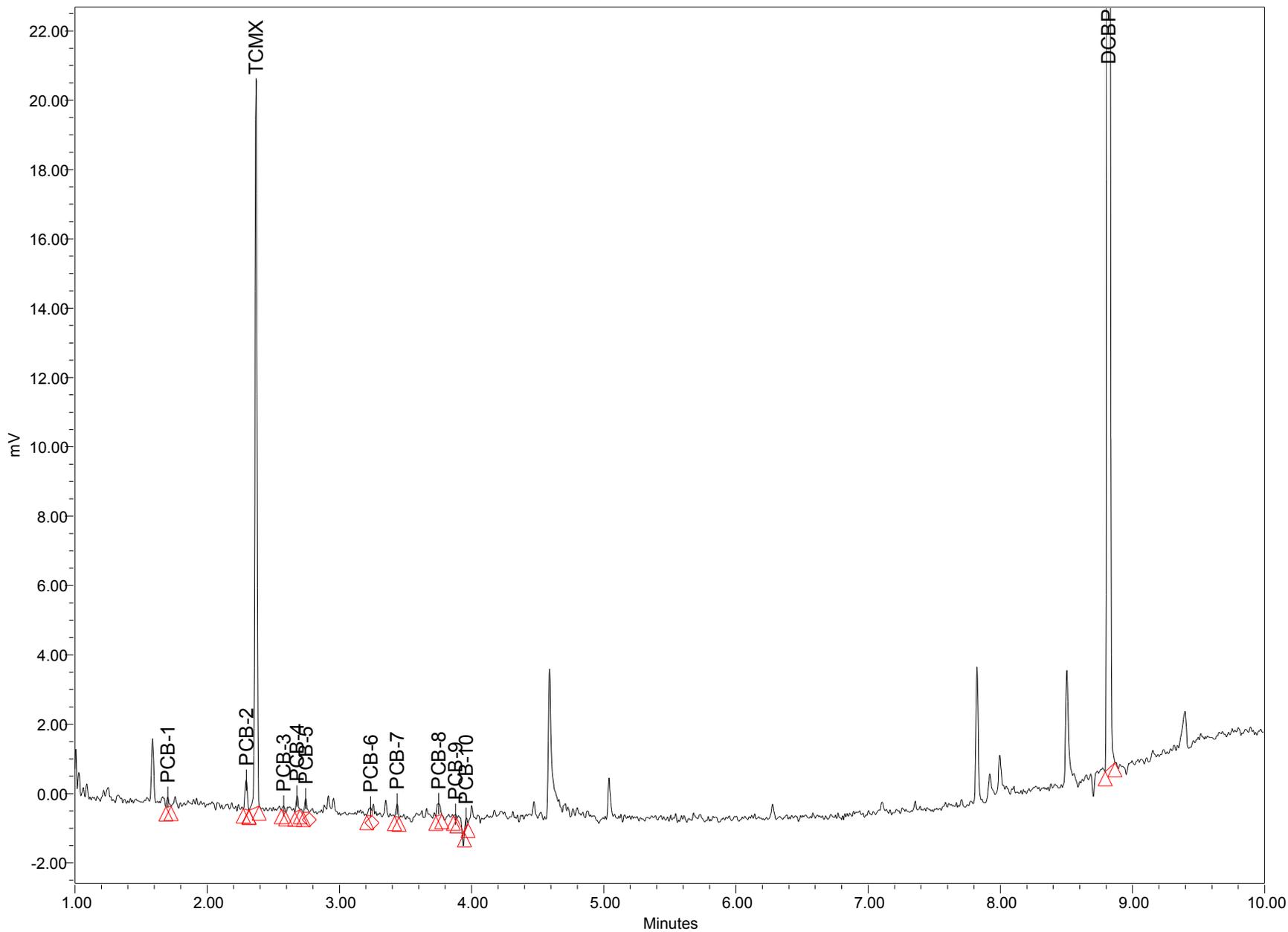
**Peak Results**

|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.702          | BB               | 309           |                      |             |             |
| 2  | PCB-2     | 2.295          | BB               | 1074          |                      |             |             |
| 3  | TCMX      | 2.369          | BB               | 22290         | 4.559                | 91.2        |             |
| 4  | PCB-3     | 2.579          | bb               | 167           |                      |             |             |
| 5  | PCB-4     | 2.680          | BB               | 463           |                      |             |             |
| 6  | PCB-5     | 2.744          | BV               | 425           |                      |             |             |
| 7  | PCB-6     | 3.236          | BV               | 393           |                      |             |             |
| 8  | PCB-7     | 3.437          | BB               | 399           |                      |             |             |
| 9  | PCB-8     | 3.751          | Bb               | 602           |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 88            |                      |             |             |
| 11 | PCB-10    | 3.958          | bb               | 289           |                      |             |             |
| 12 | DCBP      | 8.819          | Bb               | 158547        | 38.067               |             | 76.1        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1770.7751           | 1.926                | 0.00983     | 0.0255   | 0.00891  | NR     |      |
| 2 | A1221      | 2438.4156           | 9.754                | 0.04976     | 0.0255   | 0.00891  | X      | PB   |
| 3 | A1221-2    | 1364.7658           | 6.322                | 0.03225     | 0.0255   | 0.00891  | NR     |      |
| 4 | A1221-5    | 2012.9327           | 16.373               | 0.08354     | 0.0255   | 0.00891  | NR     |      |
| 5 | A1232      | 1803.5251           | 4.125                | 0.02104     | 0.0255   | 0.00891  | NR     |      |
| 6 | A1232-8/9  | 1113.3573           | 4.990                | 0.02546     | 0.0255   | 0.00891  | NR     |      |
| 7 | A1242      | 1770.7751           | 2.515                | 0.01283     | 0.0255   | 0.00891  | X      | AD,J |

9



SampleName AS11330; Sample\_ID NRS-162.90-T150601110623

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060021</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRP ID:          | <u>15060021-03</u>              |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-162.90-T150601110651</u> |
| Sample wt(Dry)/vol:   | <u>1030 mL</u>  | Lab Sample ID:   | <u>AS11331</u>                  |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-61</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/02/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/04/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0507                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0136                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11331                  | Sample Amount (L) : | 1.0300                   |
| Sample ID:         | NRS-162.90-T150601110651 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 1:31:03 AM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:03:11 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:26:42 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-61 [m]        |

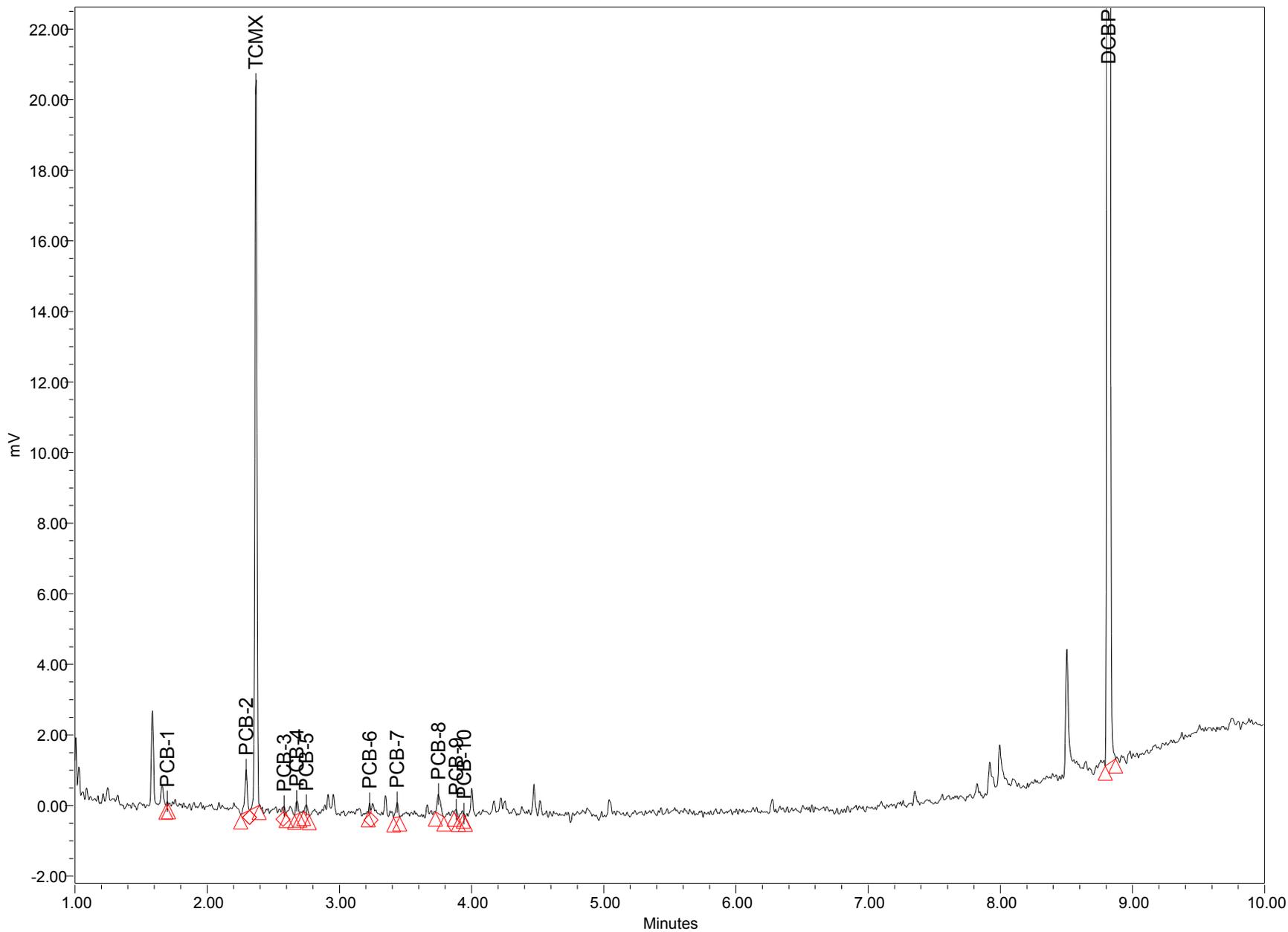
**Peak Results**

|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | bb               | 66            |                      |             |             |
| 2  | PCB-2     | 2.295          | BV               | 1577          |                      |             |             |
| 3  | TCMX      | 2.369          | Vb               | 21988         | 4.496                | 89.9        |             |
| 4  | PCB-3     | 2.582          | VB               | 161           |                      |             |             |
| 5  | PCB-4     | 2.677          | BB               | 469           |                      |             |             |
| 6  | PCB-5     | 2.750          | bB               | 341           |                      |             |             |
| 7  | PCB-6     | 3.228          | BV               | 209           |                      |             |             |
| 8  | PCB-7     | 3.437          | BB               | 573           |                      |             |             |
| 9  | PCB-8     | 3.749          | BB               | 980           |                      |             |             |
| 10 | PCB-9     | 3.885          | bb               | 182           |                      |             |             |
| 11 | PCB-10    | 3.943          | bb               | 19            |                      |             |             |
| 12 | DCBP      | 8.819          | Bb               | 159861        | 38.411               |             | 76.8        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1964.1544           | 2.156                | 0.01047     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 2614.0373           | 10.452               | 0.05074     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 1037.1983           | 4.953                | 0.02404     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 2273.3388           | 18.437               | 0.08950     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232      | 2095.9571           | 4.795                | 0.02328     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9  | 933.0617            | 4.105                | 0.01993     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242      | 1964.1544           | 2.809                | 0.01363     | 0.0250   | 0.00873  | X      | AD,J |

9



SampleName AS11331; Sample\_ID NRS-162.90-T150601110651

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-04</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-186.00-T150601110857</u> |
| Sample wt(Dry)/vol: <u>980 mL</u>                                      | Lab Sample ID: <u>AS11332</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-62</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U    |
| 11104-28-2 | Aroclor 1221  | 0.103                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0144                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11332                  | Sample Amount (L) : | 0.9800                  |
| Sample ID:         | NRS-186.00-T150601110857 | Dilution:           | 5                       |
| Date Acquired:     | 6/4/2015 1:44:28 AM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 3:39:44 PM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 3:44:43 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-62 [m]       |

**Peak Results**

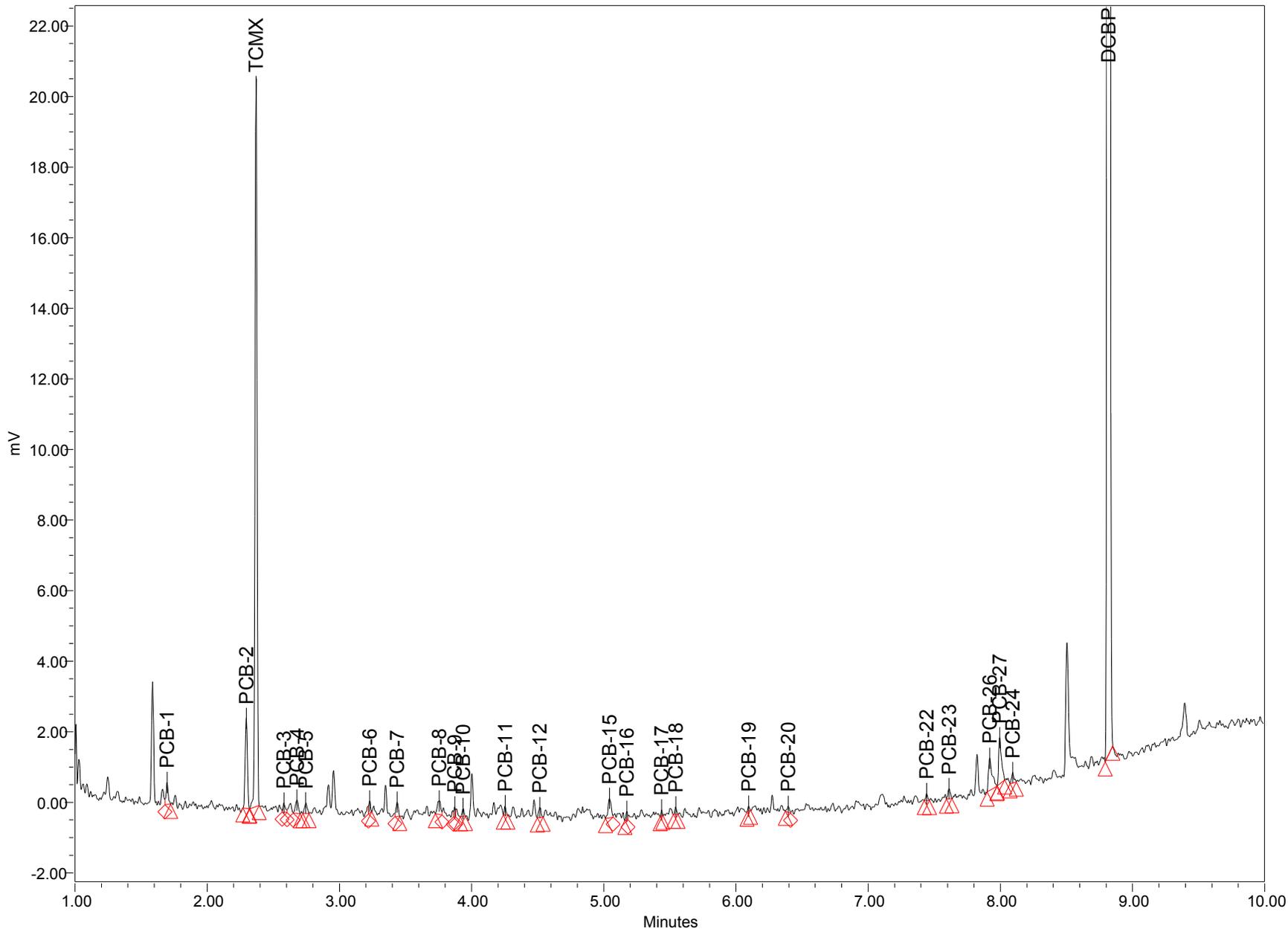
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | VB               | 694           |                      |             |             |
| 2  | PCB-2     | 2.296          | bB               | 3075          |                      |             |             |
| 3  | TCMX      | 2.369          | BB               | 21765         | 4.449                | 89.0        |             |
| 4  | PCB-3     | 2.580          | VV               | 308           |                      |             |             |
| 5  | PCB-4     | 2.678          | VB               | 577           |                      |             |             |
| 6  | PCB-5     | 2.746          | BB               | 410           |                      |             |             |
| 7  | PCB-6     | 3.229          | vb               | 311           |                      |             |             |
| 8  | PCB-7     | 3.437          | vB               | 490           |                      |             |             |
| 9  | PCB-8     | 3.755          | BV               | 698           |                      |             |             |
| 10 | PCB-9     | 3.872          | VV               | 243           |                      |             |             |
| 11 | PCB-10    | 3.936          | BB               | 230           |                      |             |             |
| 12 | PCB-11    | 4.253          | BB               | 236           |                      |             |             |
| 13 | PCB-12    | 4.517          | BB               | 353           |                      |             |             |
| 14 | PCB-15    | 5.043          | BV               | 895           |                      |             |             |
| 15 | PCB-16    | 5.174          | Bv               | 203           |                      |             |             |
| 16 | PCB-17    | 5.438          | BB               | 114           |                      |             |             |
| 17 | PCB-18    | 5.544          | BB               | 177           |                      |             |             |
| 18 | PCB-19    | 6.095          | bb               | 122           |                      |             |             |
| 19 | PCB-20    | 6.396          | BV               | 207           |                      |             |             |
| 20 | PCB-22    | 7.442          | BB               | 194           |                      |             |             |
| 21 | PCB-23    | 7.611          | BB               | 364           |                      |             |             |
| 22 | PCB-26    | 7.919          | BB               | 1713          |                      |             |             |
| 23 | PCB-27    | 7.995          | BB               | 1953          |                      |             |             |
| 24 | PCB-24    | 8.093          | BB               | 362           |                      |             |             |
| 25 | DCBP      | 8.819          | BB               | 157389        | 37.764               |             | 75.5        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1971.1988           | 2.164                | 0.01104     | 0.0255   | 0.00891  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 2  | A1221       | 5064.4339           | 20.189              | 0.10300     | 0.0255   | 0.00891  | X      | PB   |
| 3  | A1221-2     | 1989.0991           | 8.931               | 0.04557     | 0.0255   | 0.00891  | NR     |      |
| 4  | A1221-5     | 4654.1804           | 37.306              | 0.19034     | 0.0255   | 0.00891  | NR     |      |
| 5  | A1232       | 2070.5818           | 4.737               | 0.02417     | 0.0255   | 0.00891  | NR     |      |
| 6  | A1232-8/9   | 1129.4902           | 5.069               | 0.02586     | 0.0255   | 0.00891  | NR     |      |
| 7  | A1242       | 1971.1988           | 2.819               | 0.01438     | 0.0255   | 0.00891  | X      | AD,J |
| 8  | A1248       | 1483.4110           | 1.487               | 0.00759     | 0.0255   | 0.00891  | NR     |      |
| 9  | A1248-11/15 | 353.3636            | 0.714               | 0.00364     | 0.0255   | 0.00891  | NR     |      |
| 10 | A1248-14/15 | 588.8847            | 1.327               | 0.00677     | 0.0255   | 0.00891  | NR     |      |
| 11 | A1254       | 824.1380            | 1.011               | 0.00516     | 0.0255   | 0.00891  | NR     |      |
| 12 | A1254-17/18 | 532.7722            | 1.168               | 0.00596     | 0.0255   | 0.00891  | NR     |      |
| 13 | A1254-19/20 | 494.5943            | 0.935               | 0.00477     | 0.0255   | 0.00891  | NR     |      |
| 14 | A1254-20    | 616.9987            | 1.045               | 0.00533     | 0.0255   | 0.00891  | NR     |      |
| 15 | A1260       | 1126.8343           | 0.809               | 0.00413     | 0.0255   | 0.00891  | NR     |      |
| 16 | A1260-20    | 919.6950            | 0.781               | 0.00398     | 0.0255   | 0.00891  | NR     |      |
| 17 | A1260-23/24 | 401.3375            | 0.848               | 0.00433     | 0.0255   | 0.00891  | NR     |      |
| 18 | A1262       | 1126.8343           | 0.120               | 0.00061     |          |          | NR     |      |
| 19 | A1268       | 4391.7215           | 1.503               | 0.00767     |          |          | NR     |      |
| 20 | A1268-23/24 | 3666.2246           | 2.303               | 0.01175     |          |          | NR     |      |



SampleName AS11332; Sample\_ID NRS-186.00-T150601110857

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-05</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-186.00-T150601110922</u> |
| Sample wt(Dry)/vol: <u>980 mL</u>                                      | Lab Sample ID: <u>AS11333</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-63</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0655                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0255                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11333                  | Sample Amount (L) : | 0.9800                   |
| Sample ID:         | NRS-186.00-T150601110922 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 1:58:30 AM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:07:43 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:26:55 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-63 [m]        |

**Peak Results**

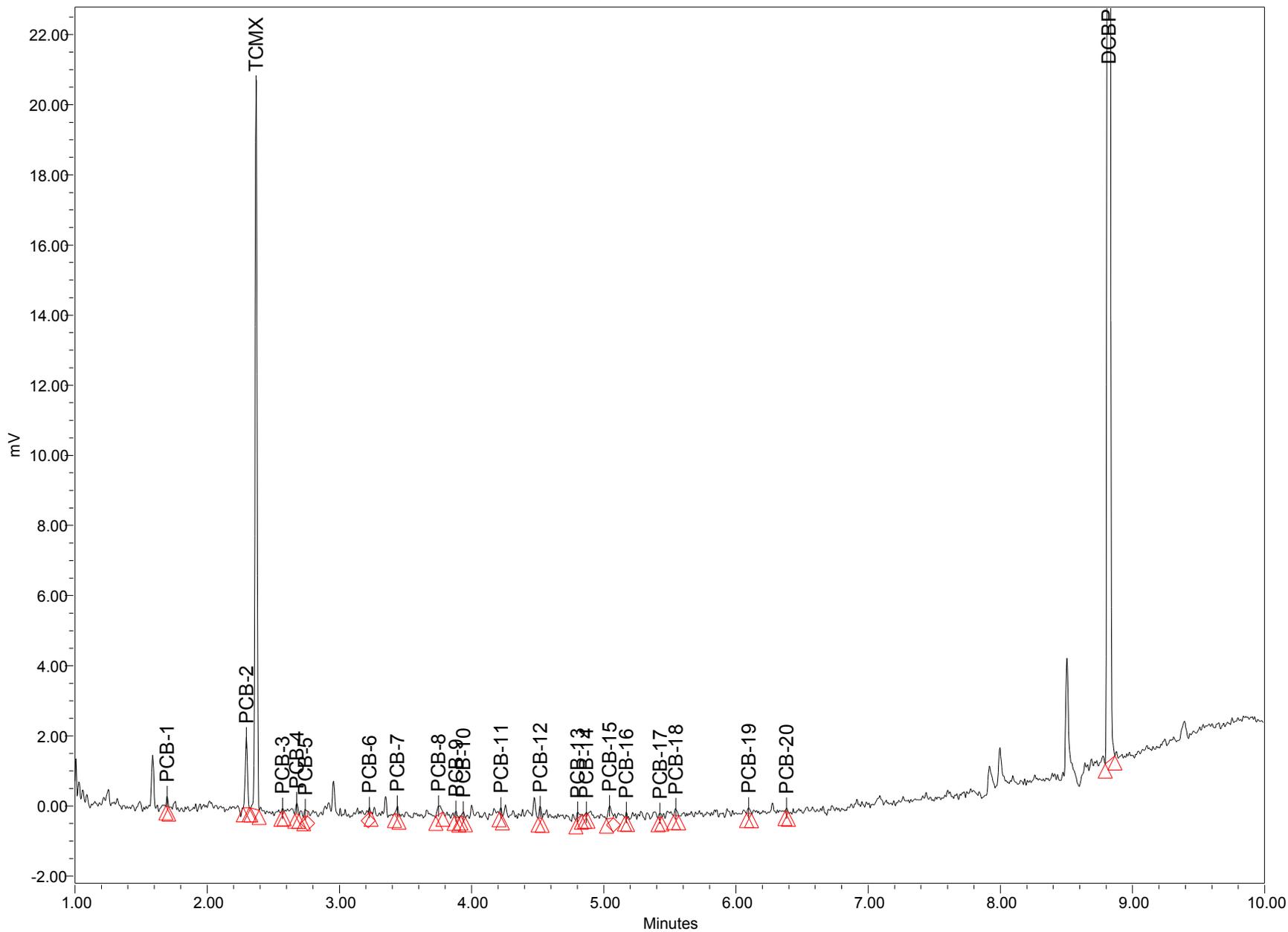
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | BB               | 208           |                      |             |             |
| 2  | PCB-2     | 2.296          | BB               | 2319          |                      |             |             |
| 3  | TCMX      | 2.370          | BB               | 21600         | 4.415                | 88.3        |             |
| 4  | PCB-3     | 2.570          | bb               | 85            |                      |             |             |
| 5  | PCB-4     | 2.677          | BB               | 334           |                      |             |             |
| 6  | PCB-5     | 2.742          | Bv               | 268           |                      |             |             |
| 7  | PCB-6     | 3.226          | Vb               | 109           |                      |             |             |
| 8  | PCB-7     | 3.438          | bB               | 244           |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 502           |                      |             |             |
| 10 | PCB-9     | 3.882          | bB               | 181           |                      |             |             |
| 11 | PCB-10    | 3.938          | bb               | 155           |                      |             |             |
| 12 | PCB-11    | 4.221          | bb               | 166           |                      |             |             |
| 13 | PCB-12    | 4.518          | BB               | 354           |                      |             |             |
| 14 | PCB-13    | 4.802          | BB               | 205           |                      |             |             |
| 15 | PCB-14    | 4.868          | bb               | 34            |                      |             |             |
| 16 | PCB-15    | 5.044          | BV               | 623           |                      |             |             |
| 17 | PCB-16    | 5.171          | bb               | 83            |                      |             |             |
| 18 | PCB-17    | 5.425          | bb               | 139           |                      |             |             |
| 19 | PCB-18    | 5.544          | BB               | 256           |                      |             |             |
| 20 | PCB-19    | 6.096          | bb               | 217           |                      |             |             |
| 21 | PCB-20    | 6.383          | bb               | 90            |                      |             |             |
| 22 | DCBP      | 8.820          | Bb               | 154223        | 36.936               |             | 73.9        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1190.6849           | 1.236                | 0.00631     | 0.0255   | 0.00891  | NR     |      |
| 2 | A1221      | 3213.1037           | 12.832               | 0.06547     | 0.0255   | 0.00891  | X      | PB   |
| 3 | A1221-2    | 894.3963            | 4.356                | 0.02222     | 0.0255   | 0.00891  | NR     |      |
| 4 | A1221-5    | 2945.3911           | 23.763               | 0.12124     | 0.0255   | 0.00891  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 1349.5963           | 3.084               | 0.01573     | 0.0255   | 0.00891  | NR     |      |
| 6  | A1232-8/9   | 667.0244            | 2.799               | 0.01428     | 0.0255   | 0.00891  | NR     |      |
| 7  | A1242       | 1190.6849           | 1.632               | 0.00833     | 0.0255   | 0.00891  | NR     |      |
| 8  | A1248       | 1381.9881           | 1.350               | 0.00689     | 0.0255   | 0.00891  | NR     |      |
| 9  | A1248-11/15 | 592.5790            | 1.212               | 0.00618     | 0.0255   | 0.00891  | NR     |      |
| 10 | A1248-14/15 | 724.4996            | 1.708               | 0.00872     | 0.0255   | 0.00891  | NR     |      |
| 11 | A1254       | 784.2347            | 0.976               | 0.00498     | 0.0255   | 0.00891  | NR     |      |
| 12 | A1254-17/18 | 389.7406            | 0.948               | 0.00484     | 0.0255   | 0.00891  | NR     |      |
| 13 | A1254-19/20 | 477.2969            | 0.909               | 0.00464     | 0.0255   | 0.00891  | NR     |      |
| 14 | A1254-20    | 693.9680            | 1.135               | 0.00579     | 0.0255   | 0.00891  | NR     |      |
| 15 | A1260       | 90.2666             |                     |             | 0.0255   | 0.00891  | NR     |      |
| 16 | A1260-23/24 | 90.2666             | 0.536               | 0.00273     | 0.0255   | 0.00891  | NR     |      |
| 17 | A1262       | 90.2666             |                     |             |          |          | NR     |      |



SampleName AS11333; Sample\_ID NRS-186.00-T150601110922

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060021</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060021-06</u>              |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-186.00-T150601110951</u> |
| Sample wt(Dry)/vol:   | <u>980 mL</u>   | Lab Sample ID:   | <u>AS11334</u>                  |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-64</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/02/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/04/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0441                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0255                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11334                  | Sample Amount (L) : | 0.9800                   |
| Sample ID:         | NRS-186.00-T150601110951 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 2:12:25 AM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:12:17 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:27:00 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-64 [m]        |

**Peak Results**

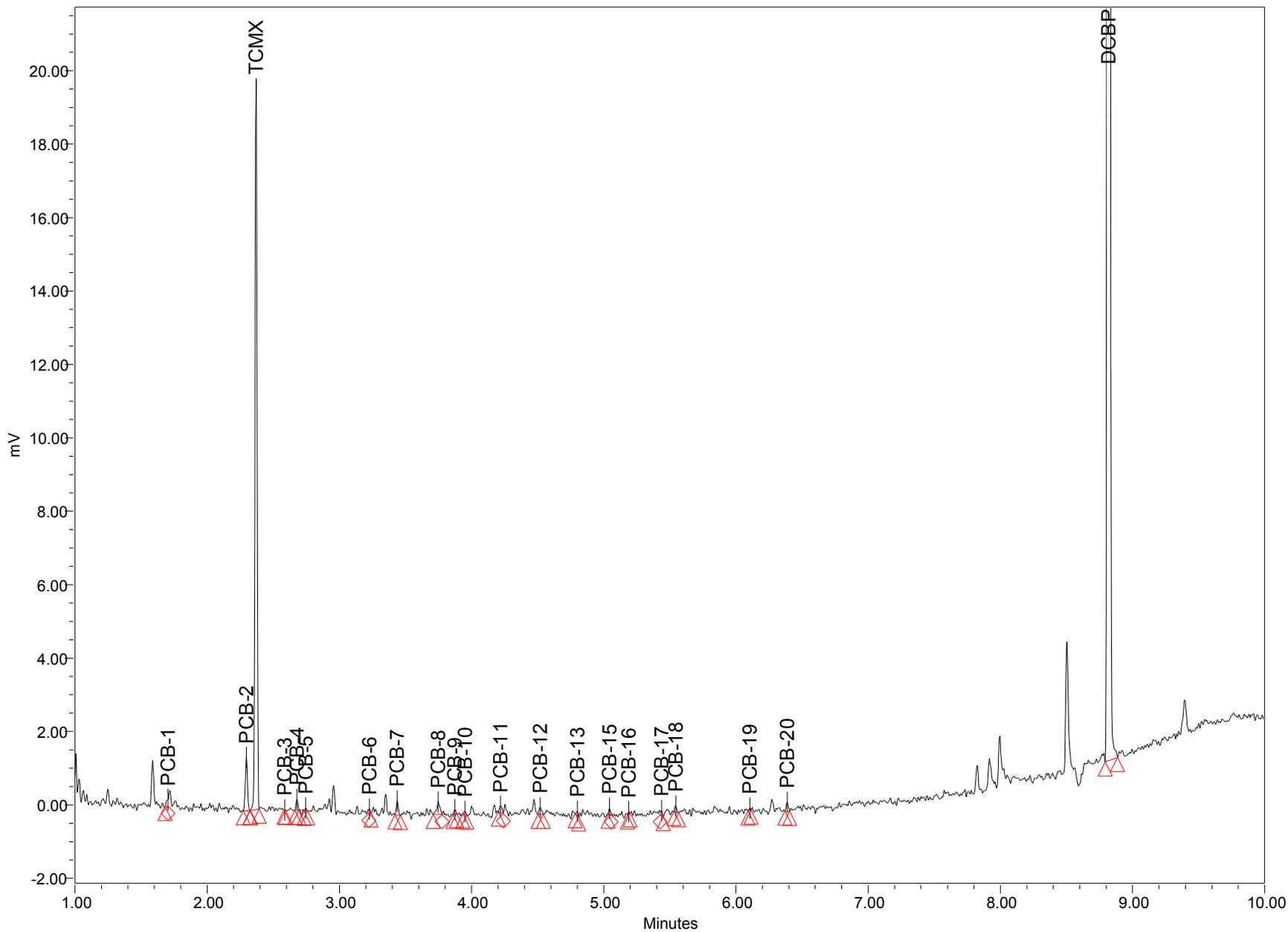
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.703          | Bv               | 172           |                      |             |             |
| 2  | PCB-2     | 2.296          | BB               | 1651          |                      |             |             |
| 3  | TCMX      | 2.369          | BB               | 20989         | 4.287                | 85.7        |             |
| 4  | PCB-3     | 2.586          | bb               | 3             |                      |             |             |
| 5  | PCB-4     | 2.678          | bb               | 273           |                      |             |             |
| 6  | PCB-5     | 2.745          | bb               | 61            |                      |             |             |
| 7  | PCB-6     | 3.227          | vb               | 70            |                      |             |             |
| 8  | PCB-7     | 3.437          | BB               | 403           |                      |             |             |
| 9  | PCB-8     | 3.748          | BV               | 586           |                      |             |             |
| 10 | PCB-9     | 3.873          | bb               | 114           |                      |             |             |
| 11 | PCB-10    | 3.950          | bb               | 92            |                      |             |             |
| 12 | PCB-11    | 4.219          | BV               | 266           |                      |             |             |
| 13 | PCB-12    | 4.518          | bb               | 252           |                      |             |             |
| 14 | PCB-13    | 4.800          | bb               | 101           |                      |             |             |
| 15 | PCB-15    | 5.044          | Bv               | 135           |                      |             |             |
| 16 | PCB-16    | 5.189          | bb               | 37            |                      |             |             |
| 17 | PCB-17    | 5.437          | Vb               | 123           |                      |             |             |
| 18 | PCB-18    | 5.543          | BB               | 166           |                      |             |             |
| 19 | PCB-19    | 6.105          | bb               | 44            |                      |             |             |
| 20 | PCB-20    | 6.387          | BB               | 259           |                      |             |             |
| 21 | DCBP      | 8.819          | Bb               | 159043        | 38.197               |             | 76.4        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1264.5793           | 1.324                | 0.00675     | 0.0255   | 0.00891  | NR     |      |
| 2 | A1221      | 2159.8830           | 8.647                | 0.04412     | 0.0255   | 0.00891  | X      | PB   |
| 3 | A1221-2    | 509.2773            | 2.746                | 0.01401     | 0.0255   | 0.00891  | NR     |      |
| 4 | A1221-5    | 2098.8131           | 17.054               | 0.08701     | 0.0255   | 0.00891  | NR     |      |
| 5 | A1232      | 1255.7461           | 2.869                | 0.01464     | 0.0255   | 0.00891  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 6  | A1232-8/9   | 555.4276            | 2.251               | 0.01149     | 0.0255   | 0.00891  | NR     |      |
| 7  | A1242       | 1264.5793           | 1.745               | 0.00890     | 0.0255   | 0.00891  | NR     |      |
| 8  | A1248       | 754.8395            | 0.501               | 0.00256     | 0.0255   | 0.00891  | NR     |      |
| 9  | A1248-11/15 | 353.3744            | 0.714               | 0.00364     | 0.0255   | 0.00891  | NR     |      |
| 10 | A1248-14/15 | 619.7644            | 1.414               | 0.00721     | 0.0255   | 0.00891  | NR     |      |
| 11 | A1254       | 628.7611            | 0.836               | 0.00426     | 0.0255   | 0.00891  | NR     |      |
| 12 | A1254-17/18 | 339.8235            | 0.871               | 0.00444     | 0.0255   | 0.00891  | NR     |      |
| 13 | A1254-19/20 | 325.6847            | 0.675               | 0.00345     | 0.0255   | 0.00891  | NR     |      |
| 14 | A1254-20    | 370.0261            | 0.757               | 0.00386     | 0.0255   | 0.00891  | NR     |      |
| 15 | A1260       | 258.7349            | 0.097               | 0.00050     | 0.0255   | 0.00891  | NR     |      |
| 16 | A1260-23/24 | 258.7349            | 0.705               | 0.00360     | 0.0255   | 0.00891  | NR     |      |
| 17 | A1262       | 258.7349            |                     |             |          |          | NR     |      |



SampleName AS11334; Sample\_ID NRS-186.00-T150601110951

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060021</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060021-07</u>              |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-187.70-T150601110724</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS11335</u>                  |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-65</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/02/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/04/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0349                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11335                  | Sample Amount (L) : | 1.0000                   |
| Sample ID:         | NRS-187.70-T150601110724 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 2:25:59 AM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:15:44 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:27:05 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-65 [m]        |

**Peak Results**

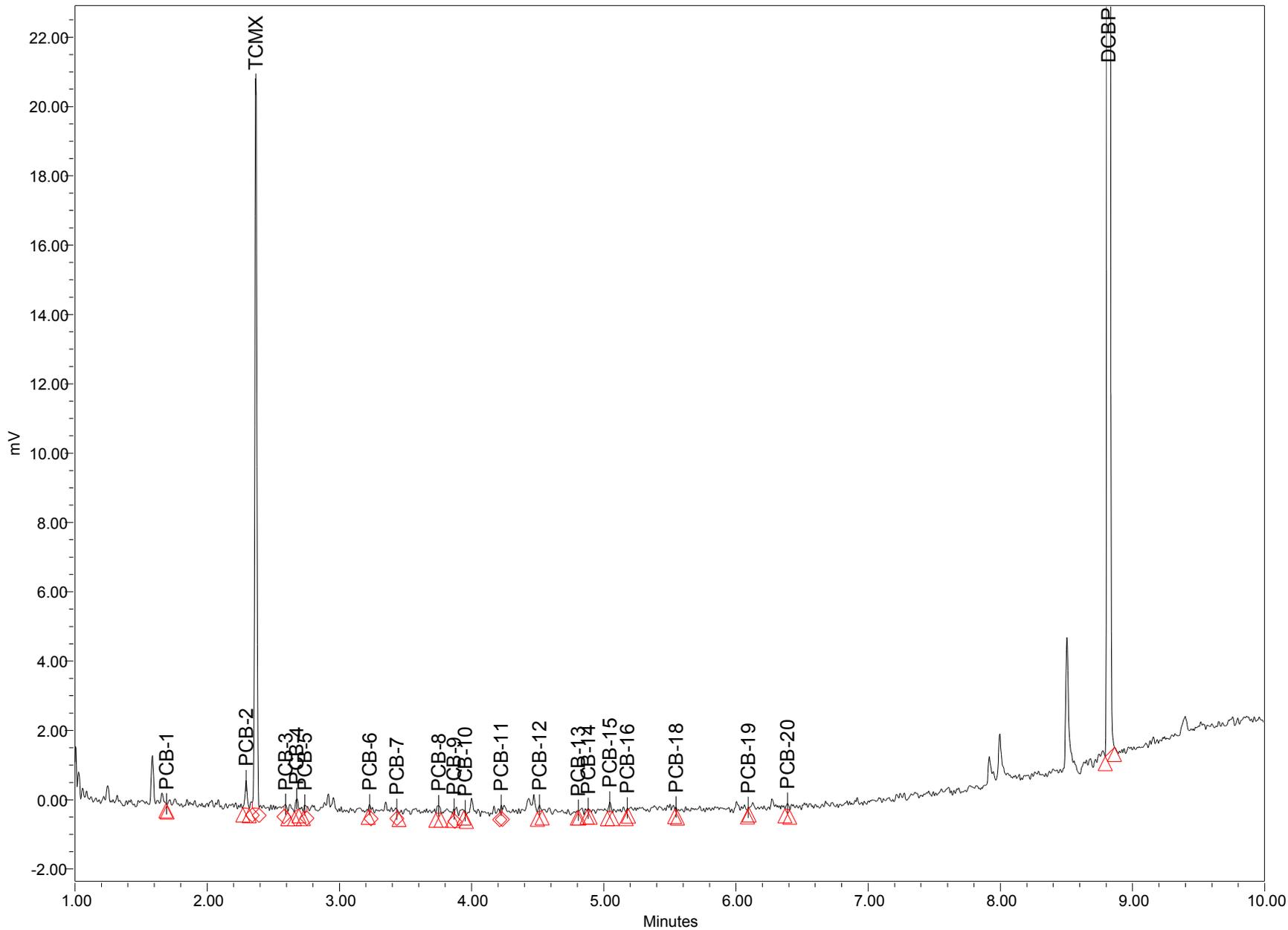
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.692          | bb               | 7             |                      |             |             |
| 2  | PCB-2     | 2.294          | BB               | 904           |                      |             |             |
| 3  | TCMX      | 2.368          | VV               | 22420         | 4.586                | 91.7        |             |
| 4  | PCB-3     | 2.593          | vB               | 205           |                      |             |             |
| 5  | PCB-4     | 2.677          | BB               | 410           |                      |             |             |
| 6  | PCB-5     | 2.739          | Bv               | 214           |                      |             |             |
| 7  | PCB-6     | 3.229          | BV               | 167           |                      |             |             |
| 8  | PCB-7     | 3.435          | vb               | 38            |                      |             |             |
| 9  | PCB-8     | 3.751          | BB               | 374           |                      |             |             |
| 10 | PCB-9     | 3.867          | bV               | 105           |                      |             |             |
| 11 | PCB-10    | 3.951          | bb               | 38            |                      |             |             |
| 12 | PCB-11    | 4.225          | VV               | 153           |                      |             |             |
| 13 | PCB-12    | 4.513          | BB               | 194           |                      |             |             |
| 14 | PCB-13    | 4.807          | bb               | 7             |                      |             |             |
| 15 | PCB-14    | 4.882          | bb               | 27            |                      |             |             |
| 16 | PCB-15    | 5.046          | BB               | 313           |                      |             |             |
| 17 | PCB-16    | 5.177          | bb               | 43            |                      |             |             |
| 18 | PCB-18    | 5.546          | bb               | 58            |                      |             |             |
| 19 | PCB-19    | 6.093          | bb               | 16            |                      |             |             |
| 20 | PCB-20    | 6.391          | BB               | 224           |                      |             |             |
| 21 | DCBP      | 8.819          | Bb               | 164166        | 39.537               |             | 79.1        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 722.0539            | 0.678                | 0.00339     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 1740.5597           | 6.981                | 0.03490     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 836.3982            | 4.113                | 0.02057     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 1526.0901           | 12.515               | 0.06258     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232      | 769.0289            | 1.753                | 0.00877     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 6  | A1232-8/9   | 290.3813            | 0.950               | 0.00475     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 722.0539            | 0.920               | 0.00460     | 0.0250   | 0.00873  | NR     |      |
| 8  | A1248       | 693.8473            | 0.418               | 0.00209     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 227.9138            | 0.453               | 0.00227     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 354.1877            | 0.668               | 0.00334     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 340.9109            | 0.577               | 0.00289     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 283.1482            | 0.783               | 0.00392     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 100.2779            | 0.329               | 0.00164     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 116.7766            | 0.462               | 0.00231     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 224.1343            | 0.069               | 0.00034     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 224.1343            | 0.670               | 0.00335     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 224.1343            |                     |             |          |          | NR     |      |



SampleName AS11335; Sample\_ID NRS-187.70-T150601110724

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-08</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150601110752</u> |
| Sample wt(Dry)/vol: <u>1060 mL</u>                                     | Lab Sample ID: <u>AS11336</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-66</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0339                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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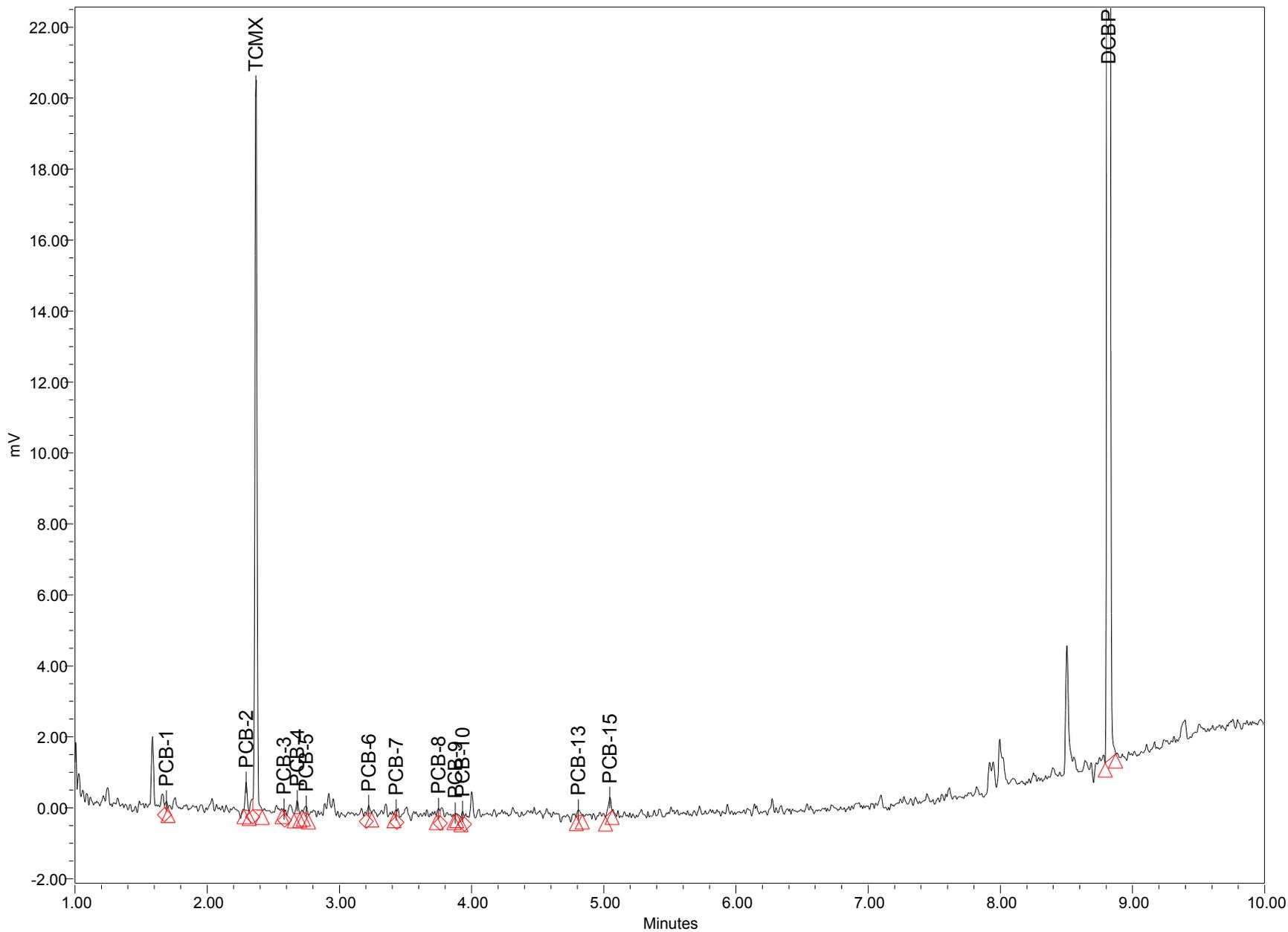
|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11336                  | Sample Amount (L) : | 1.0600                  |
| Sample ID:         | NRS-187.70-T150601110752 | Dilution:           | 5                       |
| Date Acquired:     | 6/4/2015 2:39:36 AM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 3:40:41 PM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 3:44:49 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-66 [m]       |

**Peak Results**

|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.691          | VB               | 202           |                      |             |             |
| 2  | PCB-2     | 2.294          | BB               | 834           |                      |             |             |
| 3  | TCMX      | 2.369          | vb               | 22050         | 4.509                | 90.2        |             |
| 4  | PCB-3     | 2.580          | bv               | 55            |                      |             |             |
| 5  | PCB-4     | 2.681          | BB               | 415           |                      |             |             |
| 6  | PCB-5     | 2.748          | bb               | 286           |                      |             |             |
| 7  | PCB-6     | 3.221          | VB               | 271           |                      |             |             |
| 8  | PCB-7     | 3.428          | bv               | 111           |                      |             |             |
| 9  | PCB-8     | 3.750          | bv               | 273           |                      |             |             |
| 10 | PCB-9     | 3.877          | bb               | 20            |                      |             |             |
| 11 | PCB-10    | 3.931          | BV               | 151           |                      |             |             |
| 12 | PCB-13    | 4.807          | BB               | 252           |                      |             |             |
| 13 | PCB-15    | 5.046          | BB               | 630           |                      |             |             |
| 14 | DCBP      | 8.819          | Bb               | 159401        | 38.291               |             | 76.6        |

**Group Results**

|    | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1  | A1016       | 825.5218            | 0.802                | 0.00378     | 0.0250   | 0.00873  | NR     |      |
| 2  | A1221       | 1792.9925           | 7.189                | 0.03391     | 0.0250   | 0.00873  | X      | PB   |
| 3  | A1221-2     | 958.5923            | 4.624                | 0.02181     | 0.0250   | 0.00873  | NR     |      |
| 4  | A1221-5     | 1506.7568           | 12.362               | 0.05831     | 0.0250   | 0.00873  | NR     |      |
| 5  | A1232       | 840.9693            | 1.918                | 0.00905     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 547.8727            | 2.214                | 0.01044     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 825.5218            | 1.077                | 0.00508     | 0.0250   | 0.00873  | NR     |      |
| 8  | A1248       | 882.3945            | 0.674                | 0.00318     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 252.2970            | 0.504                | 0.00238     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 252.2970            | 0.382                | 0.00180     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11336; Sample\_ID NRS-187.70-T150601110752

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060021-09RR1</u>              |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150601110823</u> |
| Sample wt(Dry)/vol: <u>1070 mL</u>                                     | Lab Sample ID: <u>AS11337RR1</u>           |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-5</u>           |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0281                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11337RR1               | Sample Amount (L) : | 1.0700                   |
| Sample ID:         | NRS-187.70-T150601110823 | Dilution:           | 5                        |
| Date Acquired:     | 6/4/2015 10:38:15 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:51:39 AM EDT |
| Sample Set Name:   | GC28F_060415             | User Name:          | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:27:16 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1633-5 [m]         |

**Peak Results**

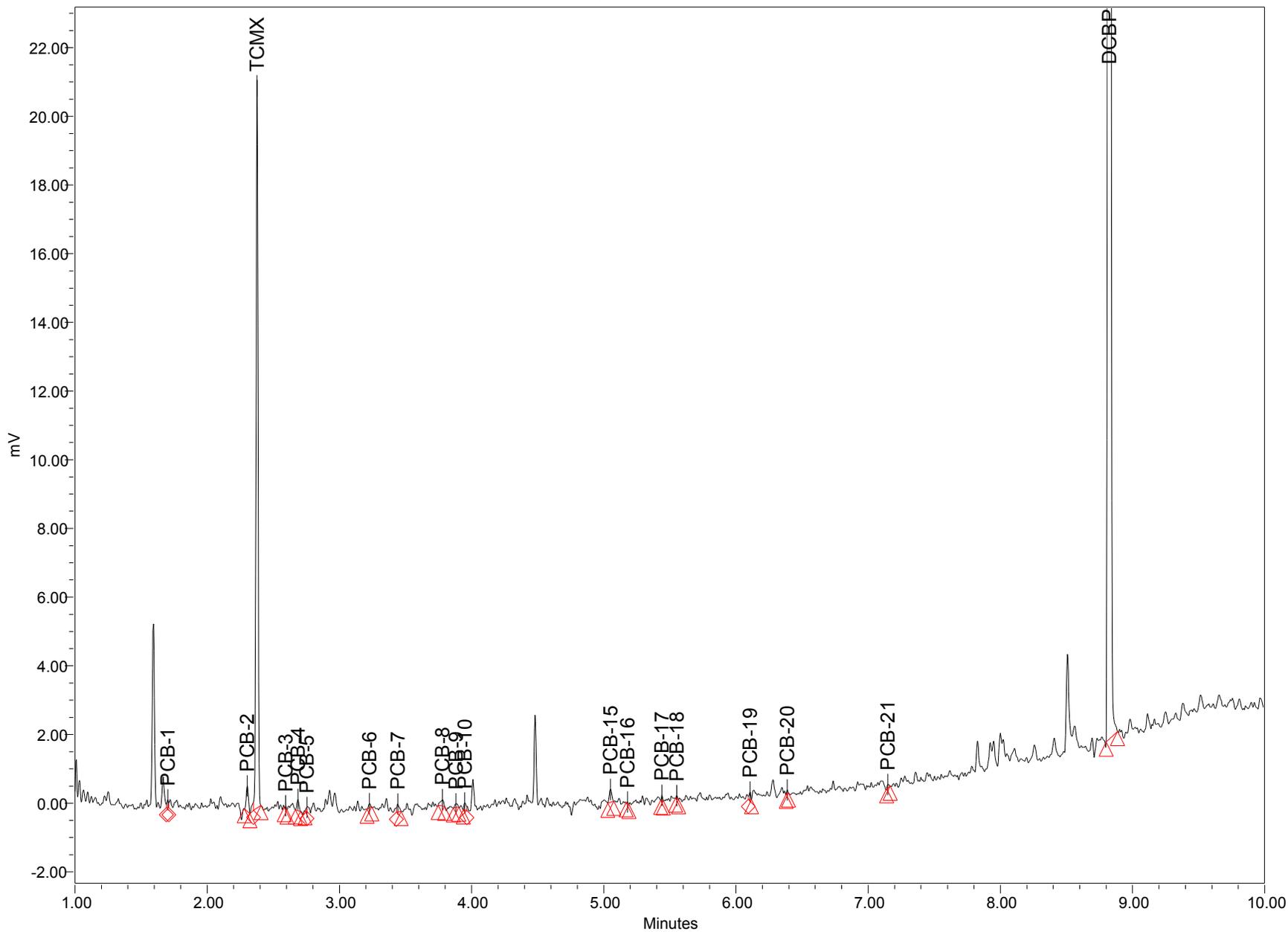
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.702          | VV               | 205           |                      |             |             |
| 2  | PCB-2     | 2.303          | bB               | 838           |                      |             |             |
| 3  | TCMX      | 2.377          | vB               | 22163         | 4.533                | 90.7        |             |
| 4  | PCB-3     | 2.594          | bb               | 49            |                      |             |             |
| 5  | PCB-4     | 2.686          | BB               | 351           |                      |             |             |
| 6  | PCB-5     | 2.753          | bv               | 56            |                      |             |             |
| 7  | PCB-6     | 3.227          | bb               | 129           |                      |             |             |
| 8  | PCB-7     | 3.441          | vB               | 298           |                      |             |             |
| 9  | PCB-8     | 3.780          | bb               | 320           |                      |             |             |
| 10 | PCB-9     | 3.882          | bb               | 164           |                      |             |             |
| 11 | PCB-10    | 3.949          | BV               | 233           |                      |             |             |
| 12 | PCB-15    | 5.051          | BB               | 501           |                      |             |             |
| 13 | PCB-16    | 5.180          | bb               | 29            |                      |             |             |
| 14 | PCB-17    | 5.440          | bb               | 96            |                      |             |             |
| 15 | PCB-18    | 5.552          | bb               | 58            |                      |             |             |
| 16 | PCB-19    | 6.106          | VB               | 181           |                      |             |             |
| 17 | PCB-20    | 6.388          | bb               | 63            |                      |             |             |
| 18 | PCB-21    | 7.149          | bb               | 96            |                      |             |             |
| 19 | DCBP      | 8.824          | Bb               | 172102        | 41.613               |             | 83.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1144.8472           | 1.181                | 0.00552     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 1498.1051           | 6.017                | 0.02812     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 660.2499            | 3.377                | 0.01578     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 1441.9427           | 11.848               | 0.05537     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232      | 1072.3467           | 2.448                | 0.01144     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9  | 587.5947            | 2.409                | 0.01126     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242      | 1144.8472           | 1.563                | 0.00730     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 8  | A1248       | 500.9878            | 0.157               | 0.00074     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1254       | 425.7279            | 0.653               | 0.00305     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1254-17/18 | 271.8261            | 0.766               | 0.00358     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254-19/20 | 182.5787            | 0.455               | 0.00213     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-20    | 363.1127            | 0.749               | 0.00350     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1260       | 158.8140            | 0.015               | 0.00007     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1260-20    | 96.1988             |                     |             | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260-23/24 | 158.8140            | 0.605               | 0.00283     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1262       | 158.8140            |                     |             |          |          | NR     |      |



SampleName AS11337RR1; Sample\_ID NRS-187.70-T150601110823

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060021

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060021

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1248 50 PPB              | CS480603A   | GC28F-1632-48        | 06/03/2015 22:32:23        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150603B14   | GC28F-1632-49        | 06/03/2015 22:45:57        | 2.37                       | 8.82 |
| 58   | ZZZZZ                     | ZZZZZ       | GC28F-1632-50        | 06/03/2015 22:59:36        | 2.37                       | 8.82 |
| 59   | ZZZZZ                     | ZZZZZ       | GC28F-1632-51        | 06/03/2015 23:13:13        | 2.37                       | 8.82 |
| 60   | ZZZZZ                     | ZZZZZ       | GC28F-1632-52        | 06/03/2015 23:26:50        | 2.37                       | 8.82 |
| 61   | ZZZZZ                     | ZZZZZ       | GC28F-1632-53        | 06/03/2015 23:40:53        | 2.37                       | 8.82 |
| 62   | ZZZZZ                     | ZZZZZ       | GC28F-1632-54        | 06/03/2015 23:54:55        | 2.37                       | 8.82 |
| 63   | PBLK-87(METHOD BLANK)     | AS11329B    | GC28F-1632-55        | 06/04/2015 00:08:31        | 2.37                       | 8.82 |
| 64   | LCS-87(LAB CONTROL SPIKE) | AS11329L    | GC28F-1632-56        | 06/04/2015 00:22:33        | 2.37                       | 8.82 |
| 65   | NRS-162.90-T150601110550  | AS11329     | GC28F-1632-57        | 06/04/2015 00:36:09        | 2.37                       | 8.82 |
| 66   | NRS-162.90-T150601110623  | AS11330     | GC28F-1632-58        | 06/04/2015 00:50:06        | 2.37                       | 8.82 |
| 67   | A1254 50 PPB              | CS540603A   | GC28F-1632-59        | 06/04/2015 01:03:23        | 2.37                       | 8.82 |
| 68   | HEXANE BLANK-SURR         | 150603B15   | GC28F-1632-60        | 06/04/2015 01:17:25        | 2.37                       | 8.82 |
| 69   | NRS-162.90-T150601110651  | AS11331     | GC28F-1632-61        | 06/04/2015 01:31:03        | 2.37                       | 8.82 |
| 70   | NRS-186.00-T150601110857  | AS11332     | GC28F-1632-62        | 06/04/2015 01:44:28        | 2.37                       | 8.82 |
| 71   | NRS-186.00-T150601110922  | AS11333     | GC28F-1632-63        | 06/04/2015 01:58:30        | 2.37                       | 8.82 |
| 72   | NRS-186.00-T150601110951  | AS11334     | GC28F-1632-64        | 06/04/2015 02:12:25        | 2.37                       | 8.82 |
| 73   | NRS-187.70-T150601110724  | AS11335     | GC28F-1632-65        | 06/04/2015 02:25:59        | 2.37                       | 8.82 |
| 74   | NRS-187.70-T150601110752  | AS11336     | GC28F-1632-66        | 06/04/2015 02:39:36        | 2.37                       | 8.82 |
| 75   | A1260 50 PPB              | CS600603B   | GC28F-1632-68        | 06/04/2015 03:07:18        | 2.37                       | 8.82 |
| 76   | HEXANE BLANK-SURR         | 150603B16   | GC28F-1632-69        | 06/04/2015 03:20:59        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

**8-D-1**  
**PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060021

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                          |               |   |                      |                            |
|--|--------------------------|---------------|---|----------------------|----------------------------|
|  |                          |               | TCMX RT: <u>2.38</u> DCBP RT: <u>8.83</u> |                      |                            |
| #  | CLIENT SAMPLE ID         | LAB SAMPLE ID | LAB FILE ID                               | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) |
| 77   | A1016 50 PPB             | CS160604A     | GC28F-1633-3                              | 06/04/2015 07:33:30  | 2.37                       |
| 78   | HEXANE BLANK-SURR        | 150604B03     | GC28F-1633-4                              | 06/04/2015 07:47:26  | 2.37                       |
| 79   | NRS-187.70-T150601110823 | AS11337RR1    | GC28F-1633-5                              | 06/04/2015 10:38:15  | 2.38                       |
| 80   | A1221 50 PPB             | CS210604A     | GC28F-1633-6                              | 06/04/2015 10:51:57  | 2.37                       |
| 81   | HEXANE BLANK-SURR        | 150604B04     | GC28F-1633-7                              | 06/04/2015 11:05:34  | 2.37                       |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060021

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060021

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

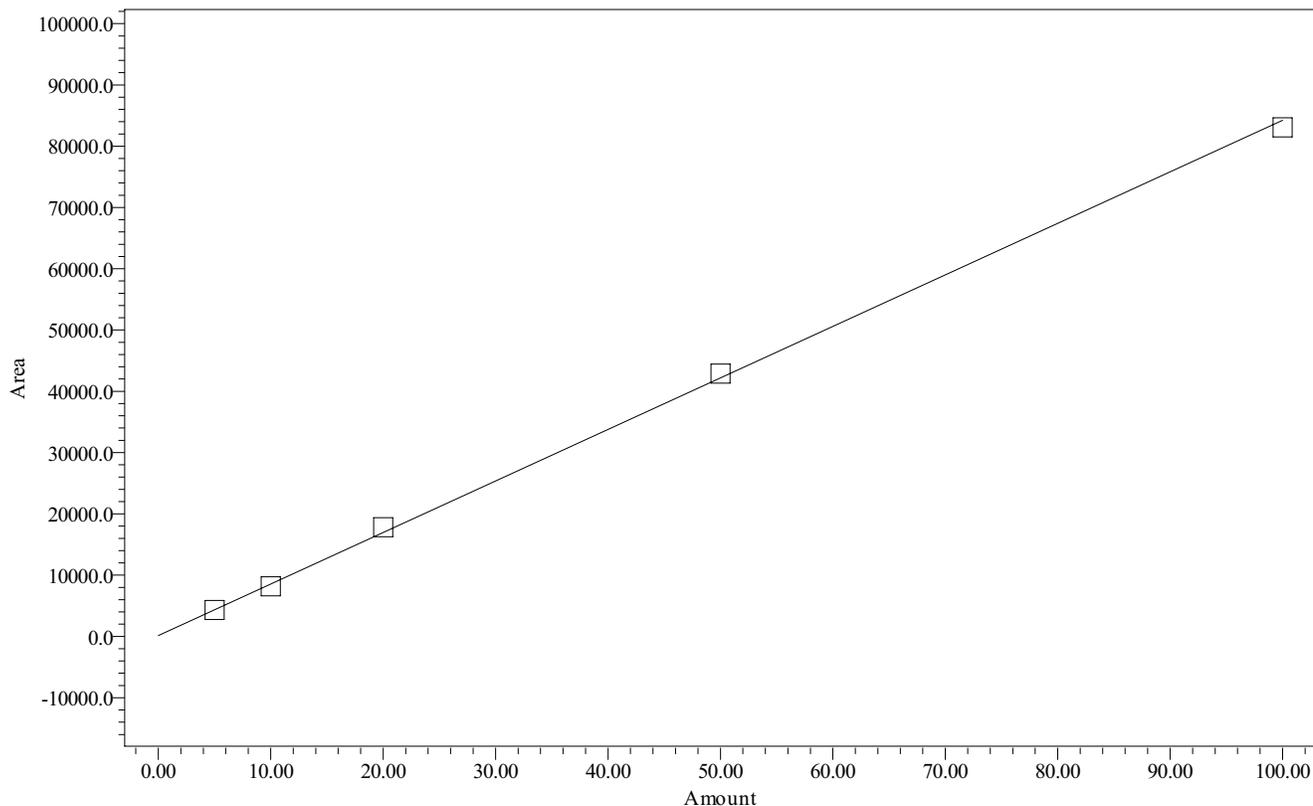
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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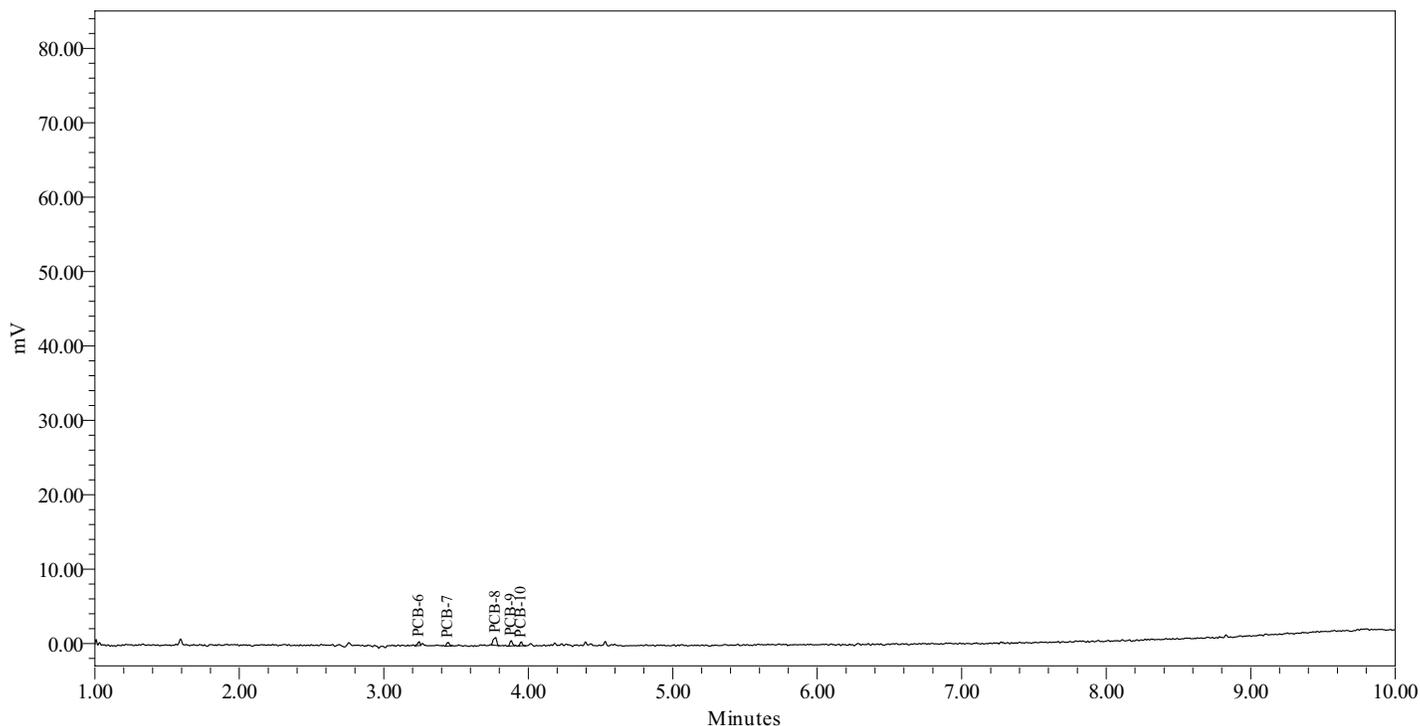
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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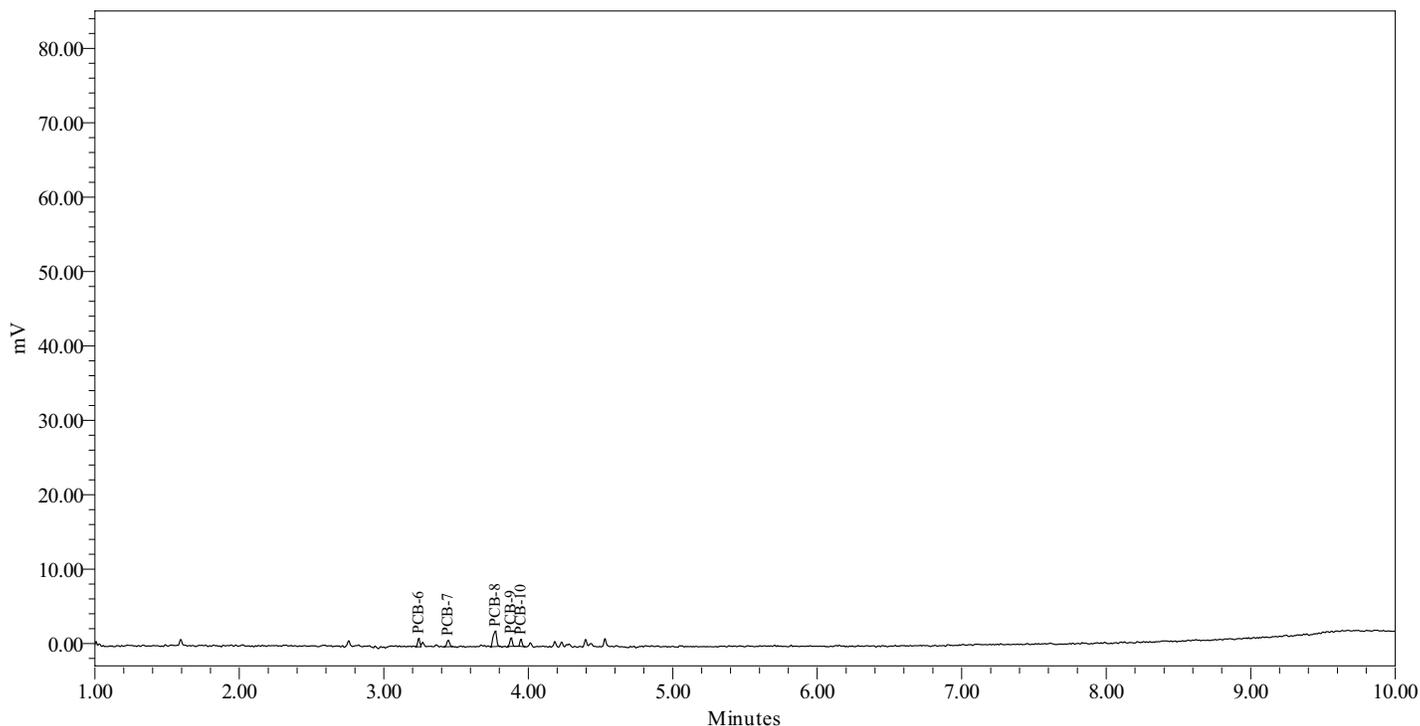
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 1182          |
| 2 | PCB-7     | 3.445          | bb               | 1151          |
| 3 | PCB-8     | 3.771          | bb               | 3544          |
| 4 | PCB-9     | 3.881          | bb               | 1340          |
| 5 | PCB-10    | 3.949          | bb               | 974           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 8191                | 10.000               |
| 2 | A1232      | 7009                |                      |
| 3 | A1232-8/9  | 2125                |                      |
| 4 | A1242      | 8191                |                      |



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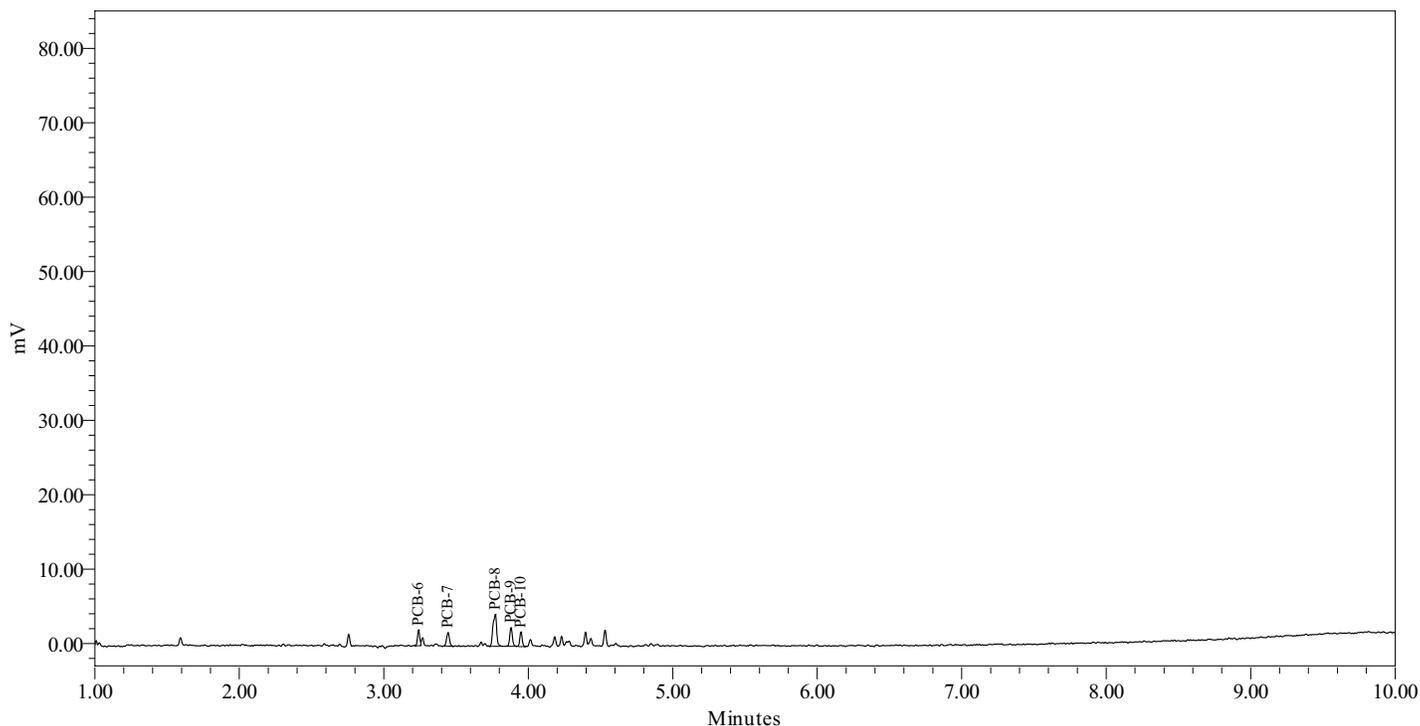
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 2349          |
| 2 | PCB-7     | 3.444          | bb               | 2467          |
| 3 | PCB-8     | 3.771          | bb               | 7692          |
| 4 | PCB-9     | 3.880          | bV               | 3110          |
| 5 | PCB-10    | 3.949          | Vb               | 2214          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 17832               | 20.000               |
| 2 | A1232      | 15483               |                      |
| 3 | A1232-8/9  | 4681                |                      |
| 4 | A1242      | 17832               |                      |



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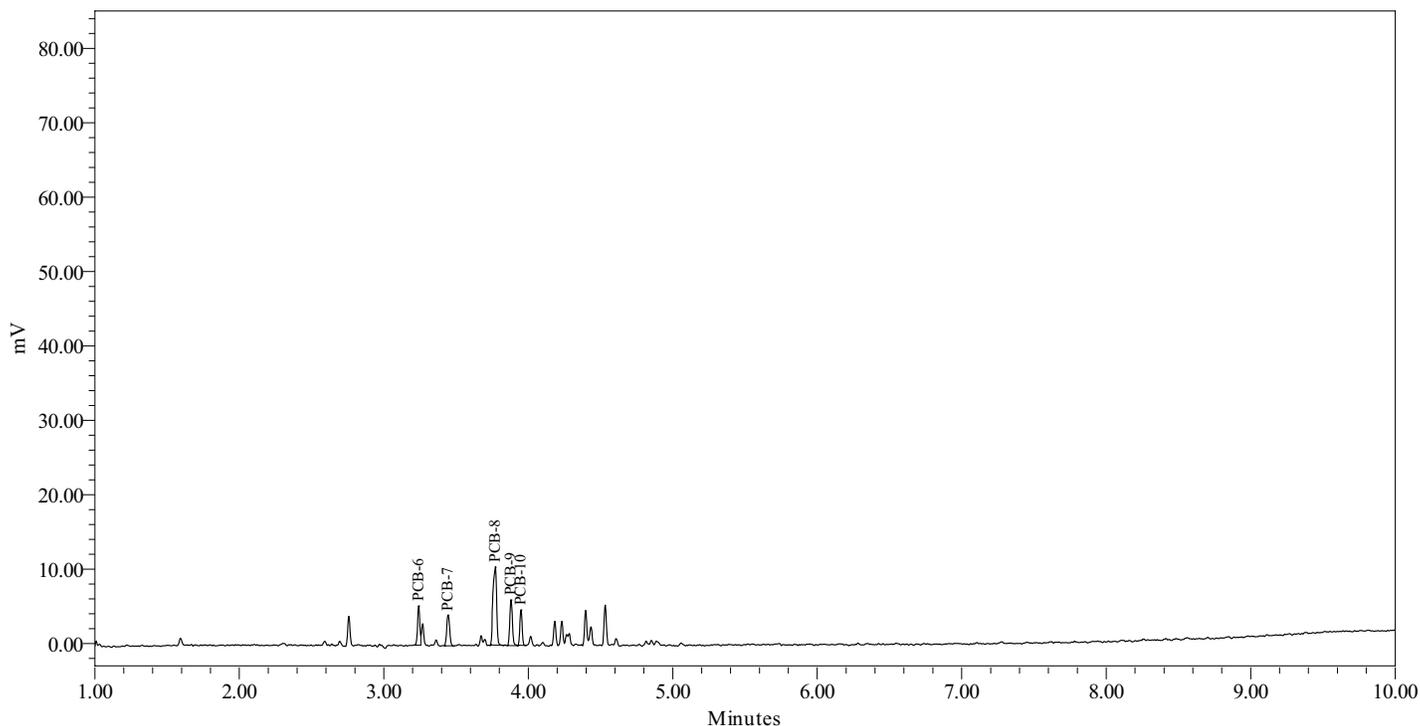
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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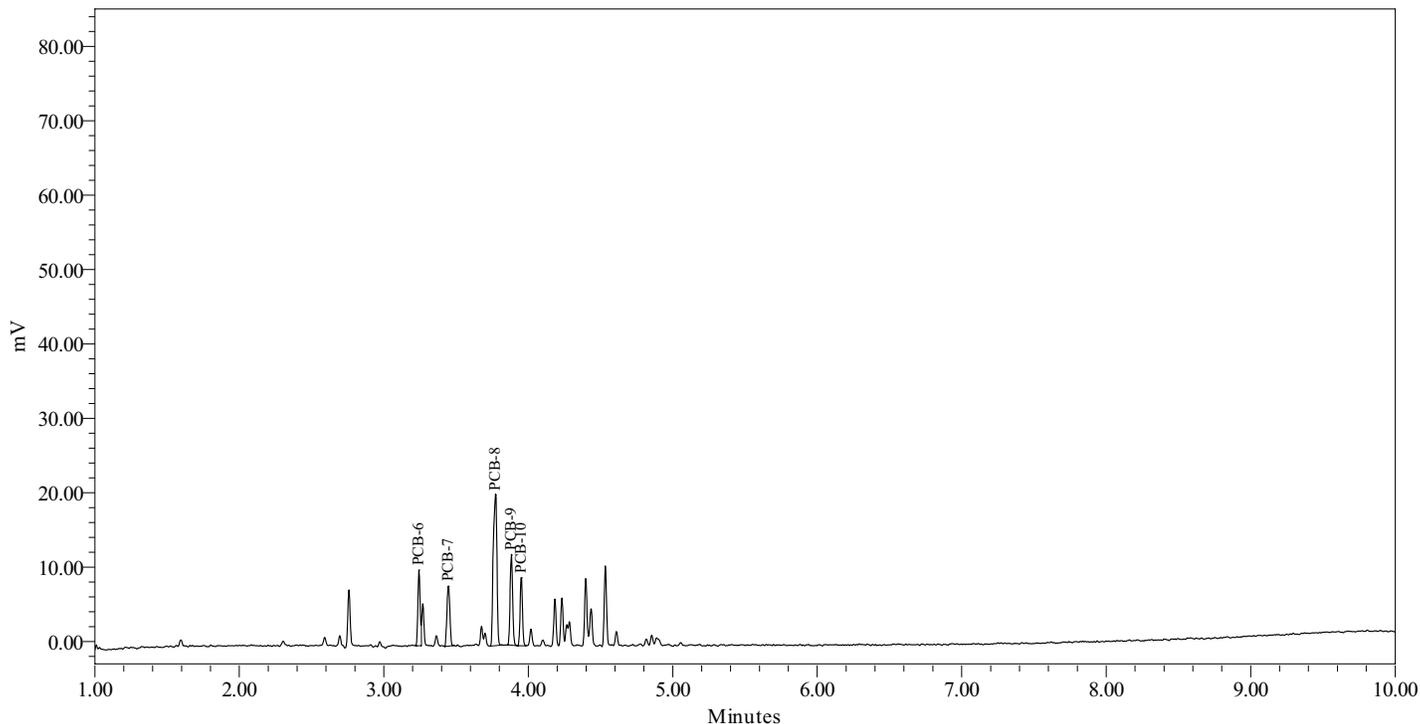
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 11381         |
| 2 PCB-7   | 3.447          | bb               | 11368         |
| 3 PCB-8   | 3.773          | bb               | 35910         |
| 4 PCB-9   | 3.883          | bB               | 14405         |
| 5 PCB-10  | 3.951          | Bb               | 10008         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 83072               | 100.000              |
| 2 A1232     | 71691               |                      |
| 3 A1232-8/9 | 21376               |                      |
| 4 A1242     | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

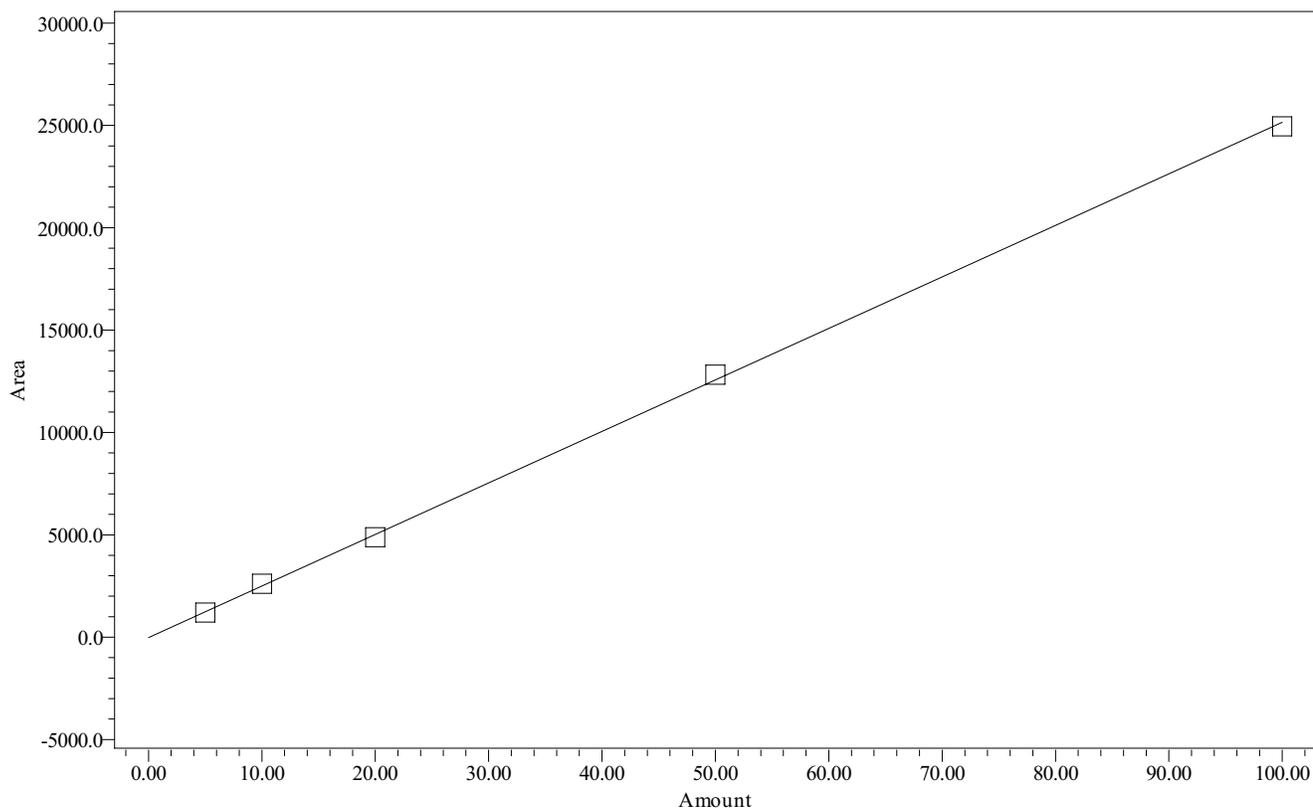
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**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

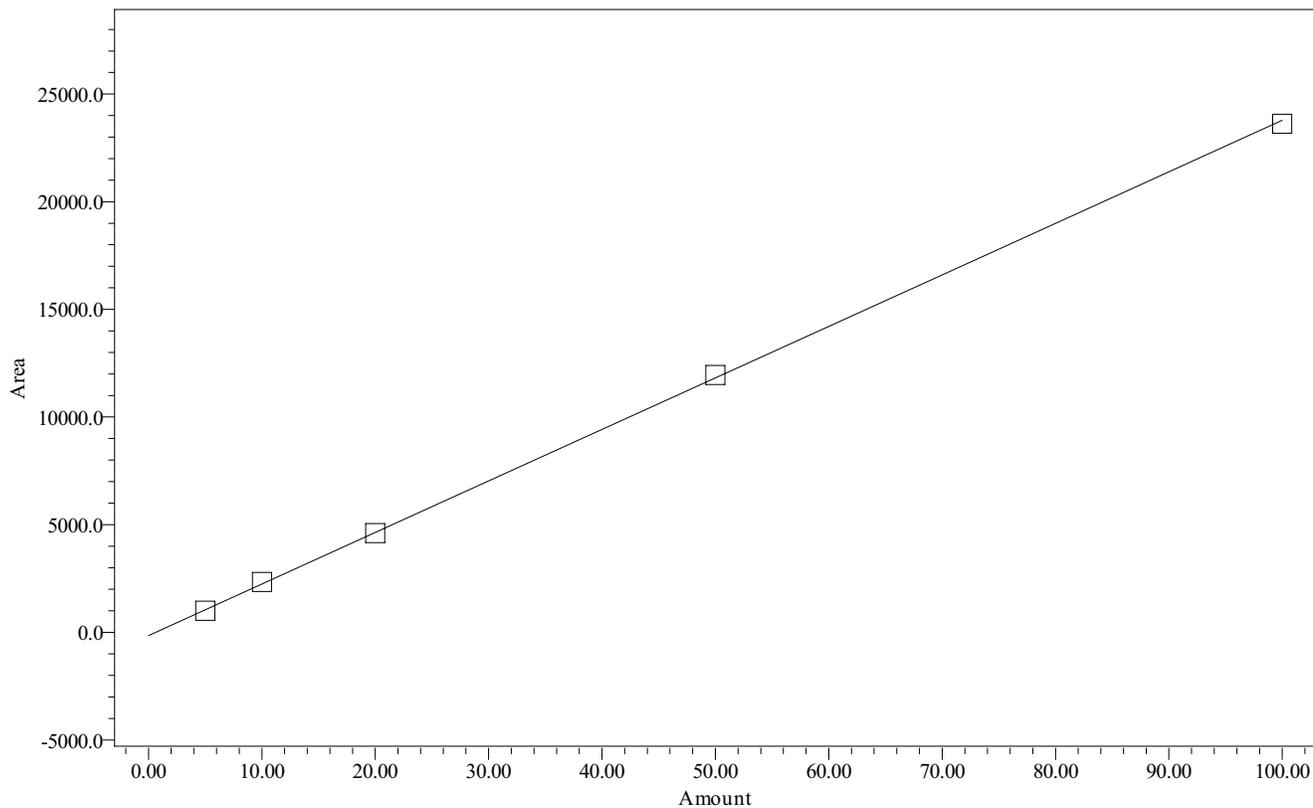
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



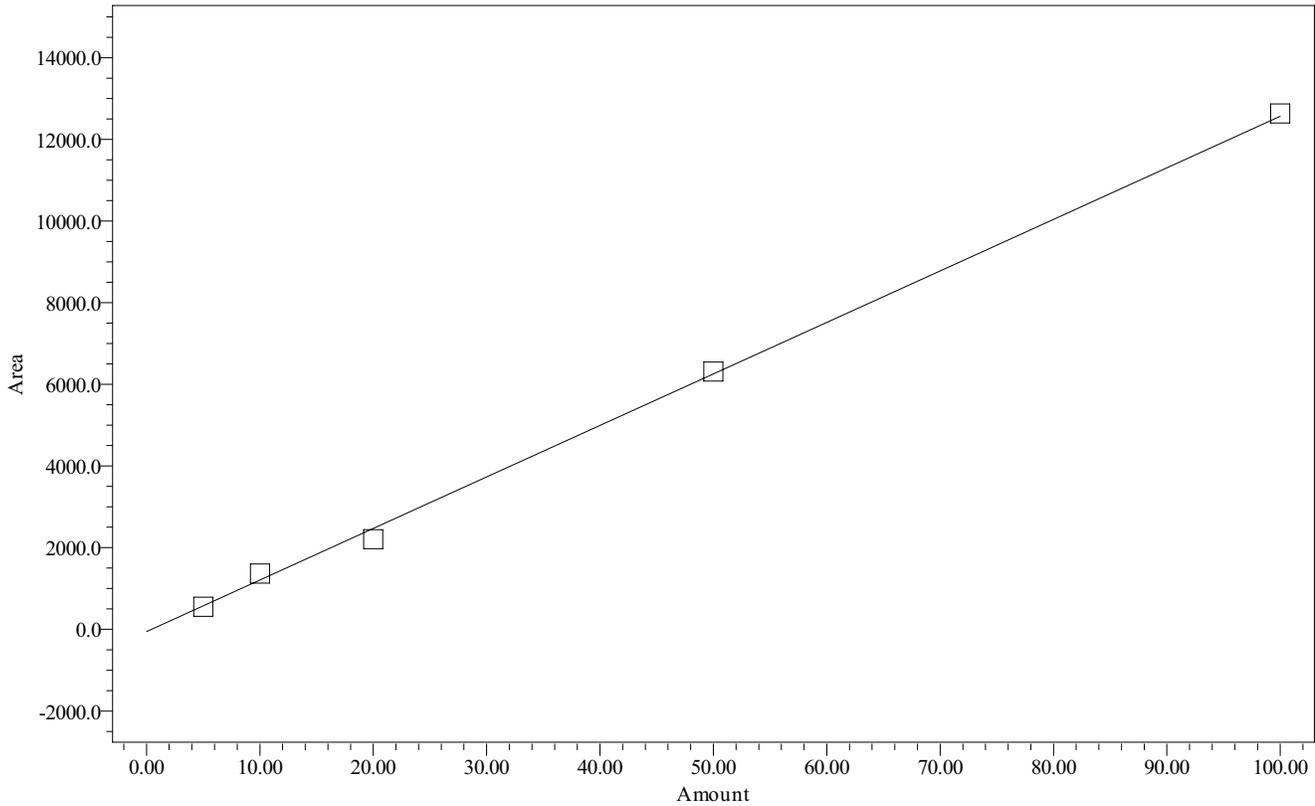
Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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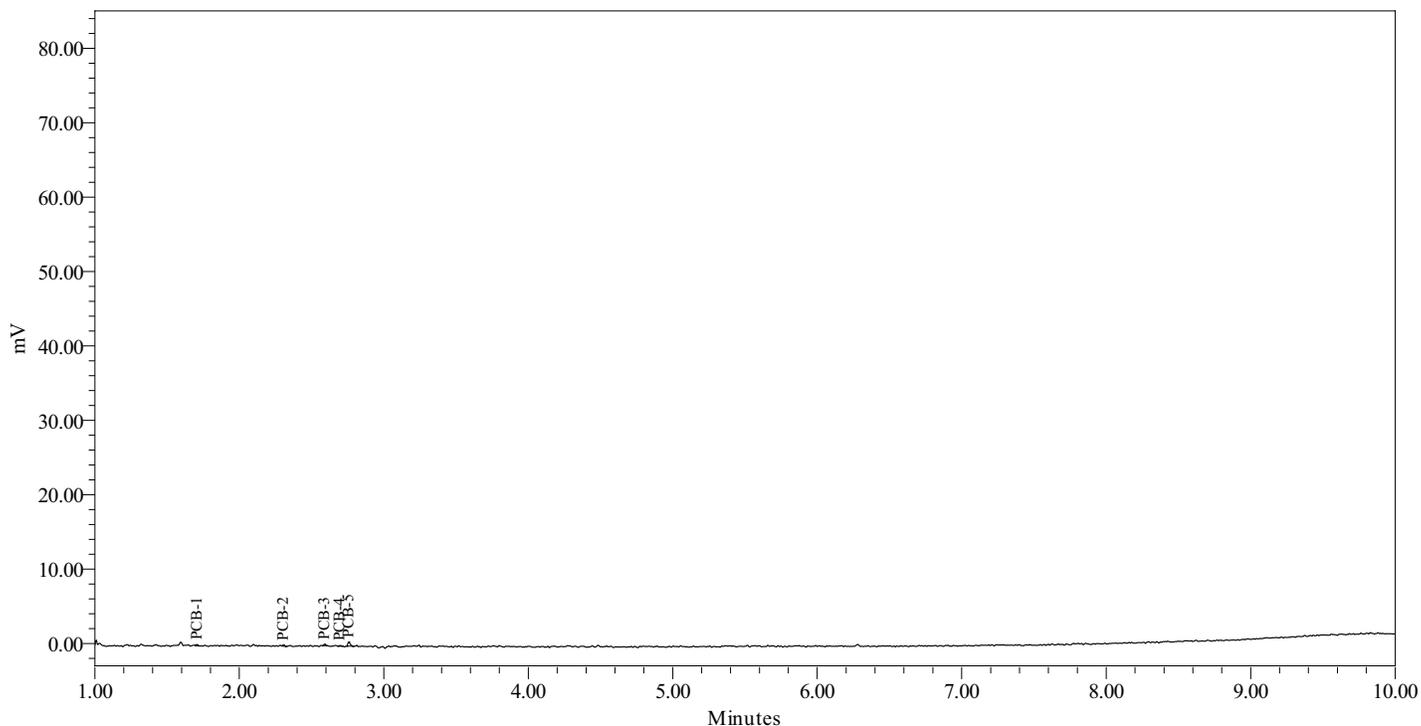
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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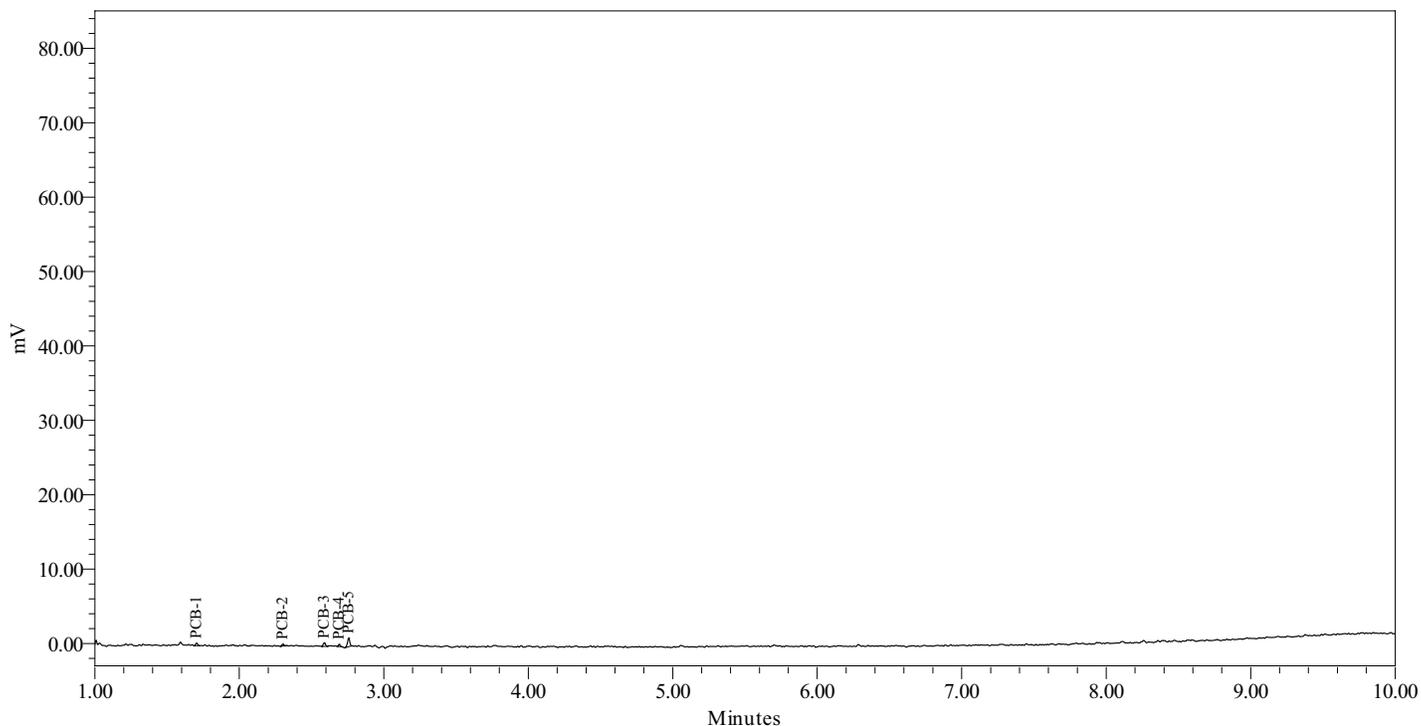
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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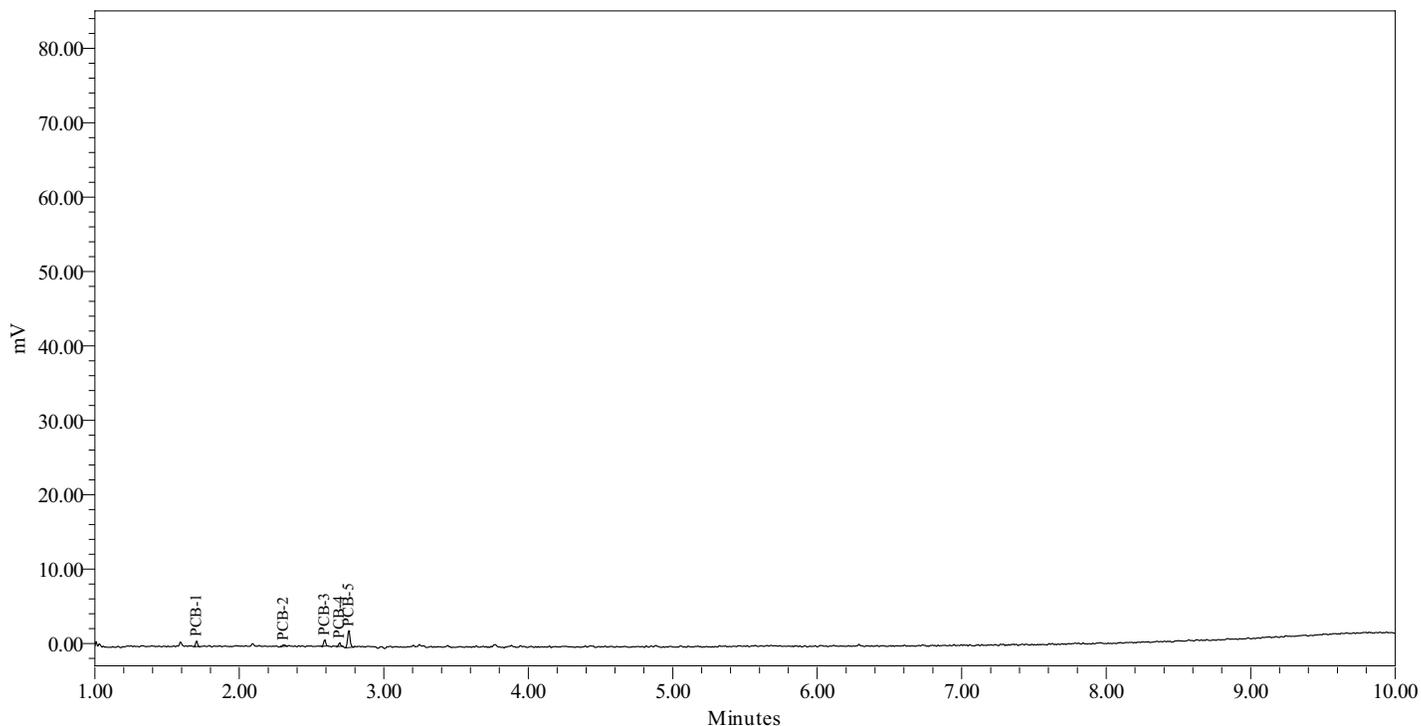
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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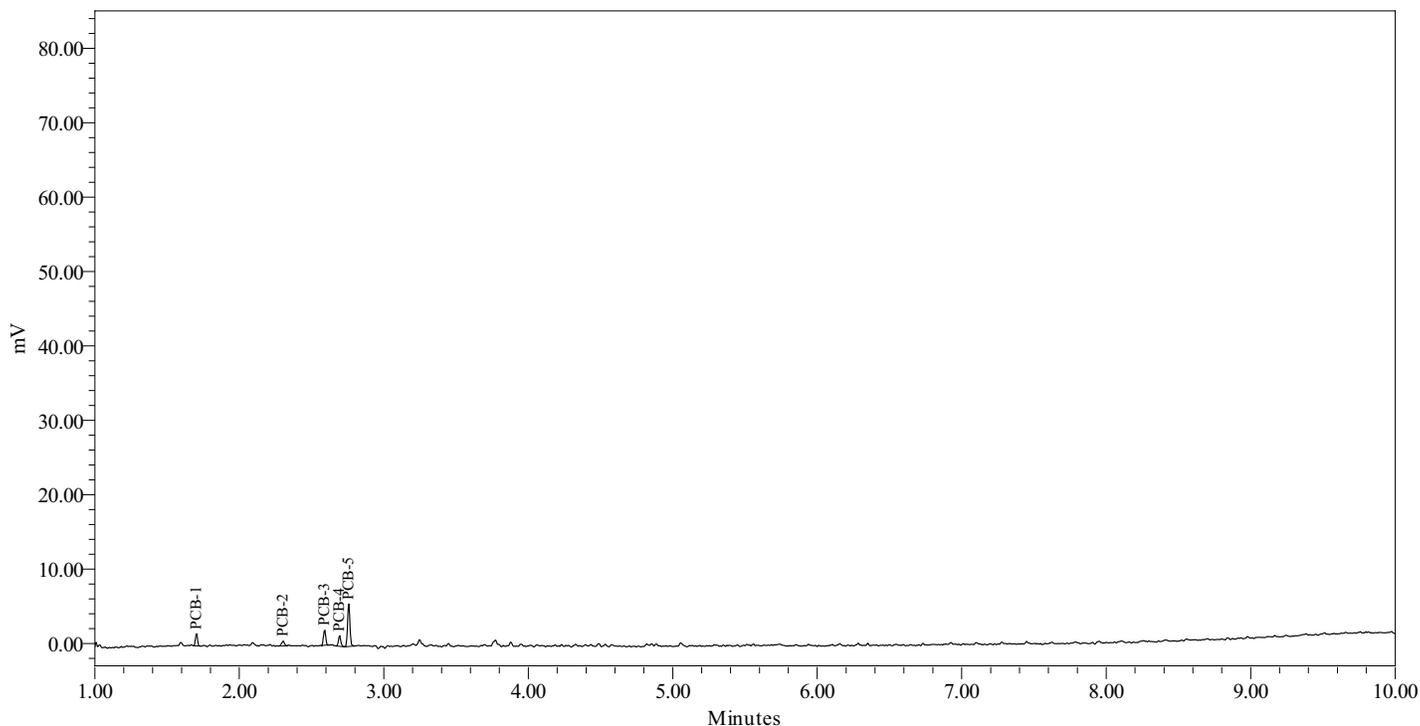
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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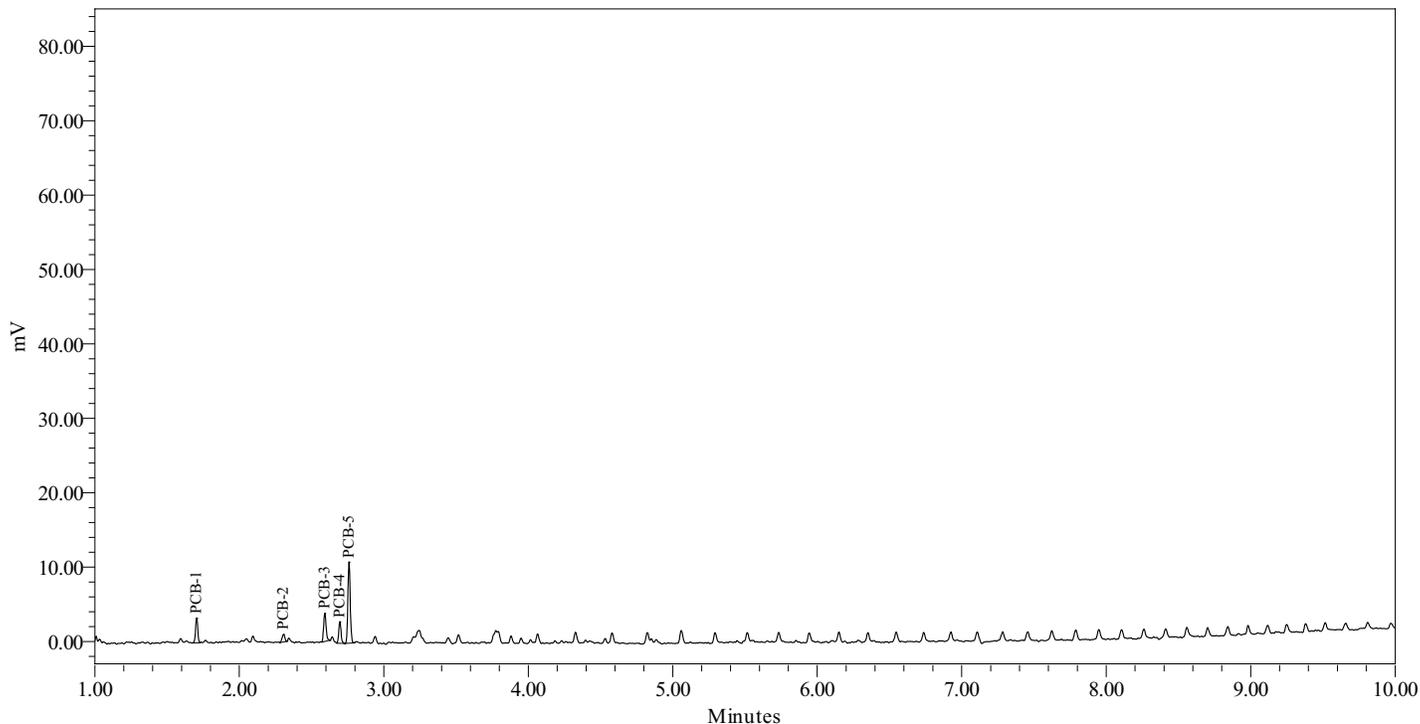
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

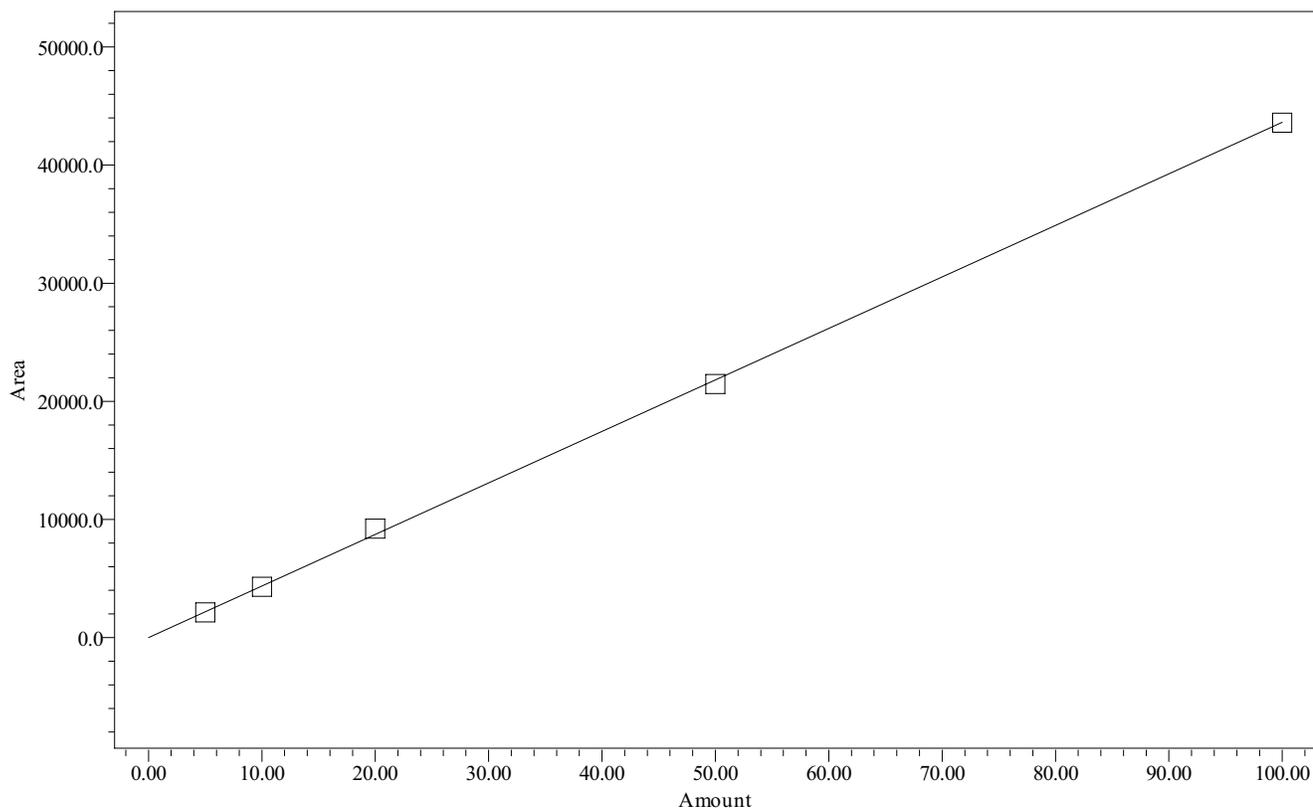
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

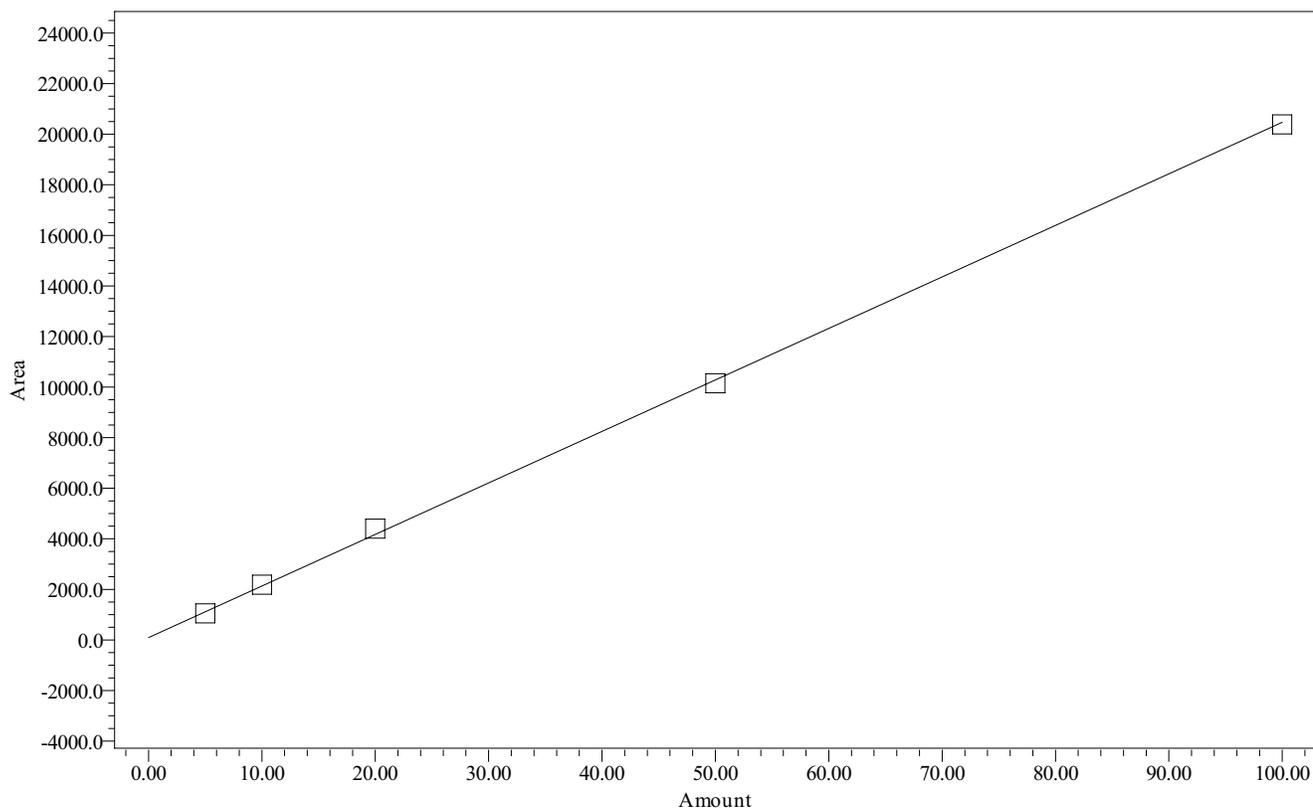
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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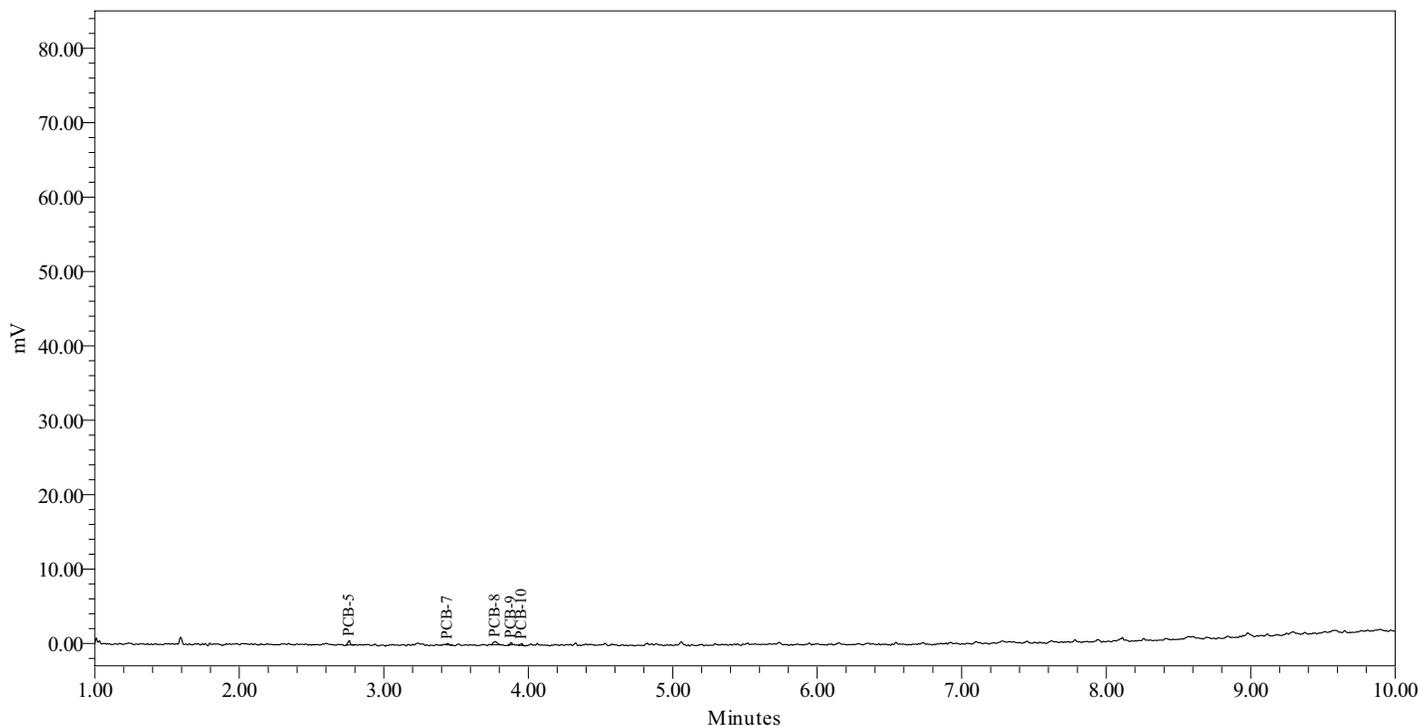
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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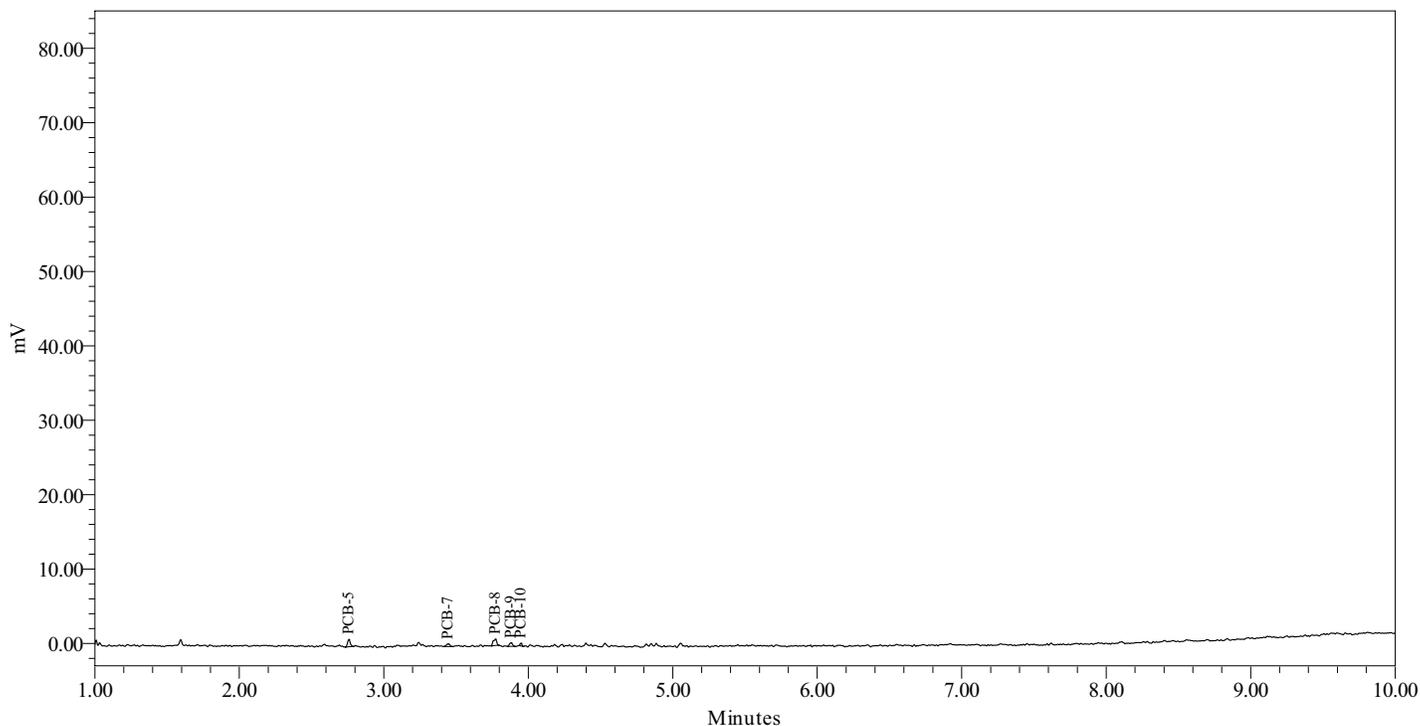
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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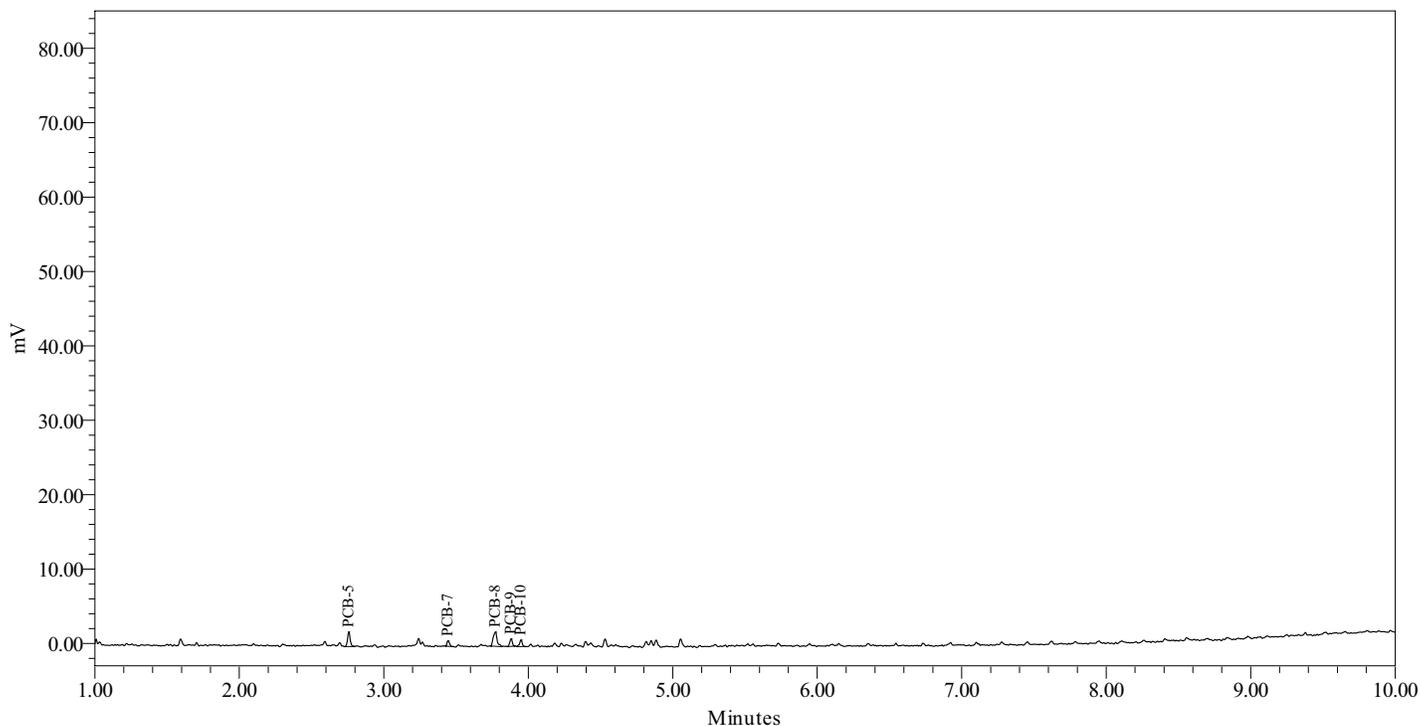
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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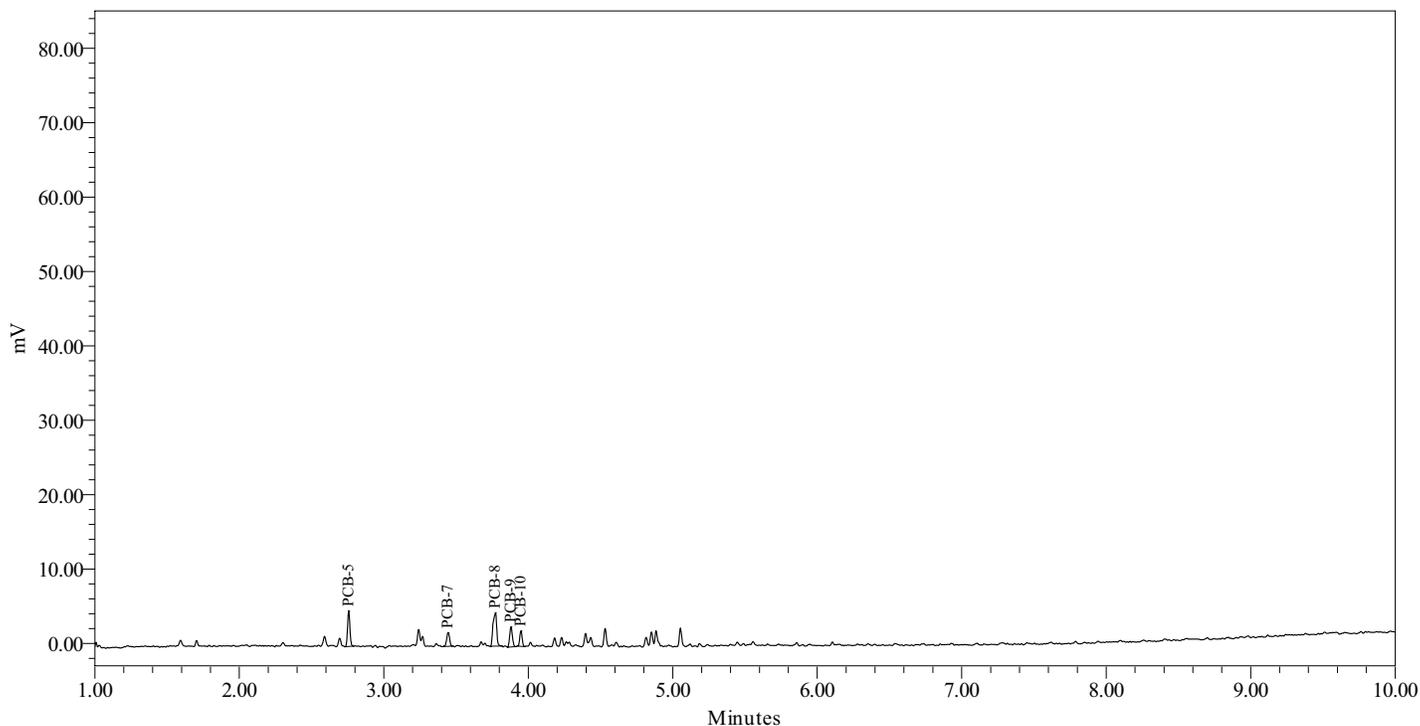
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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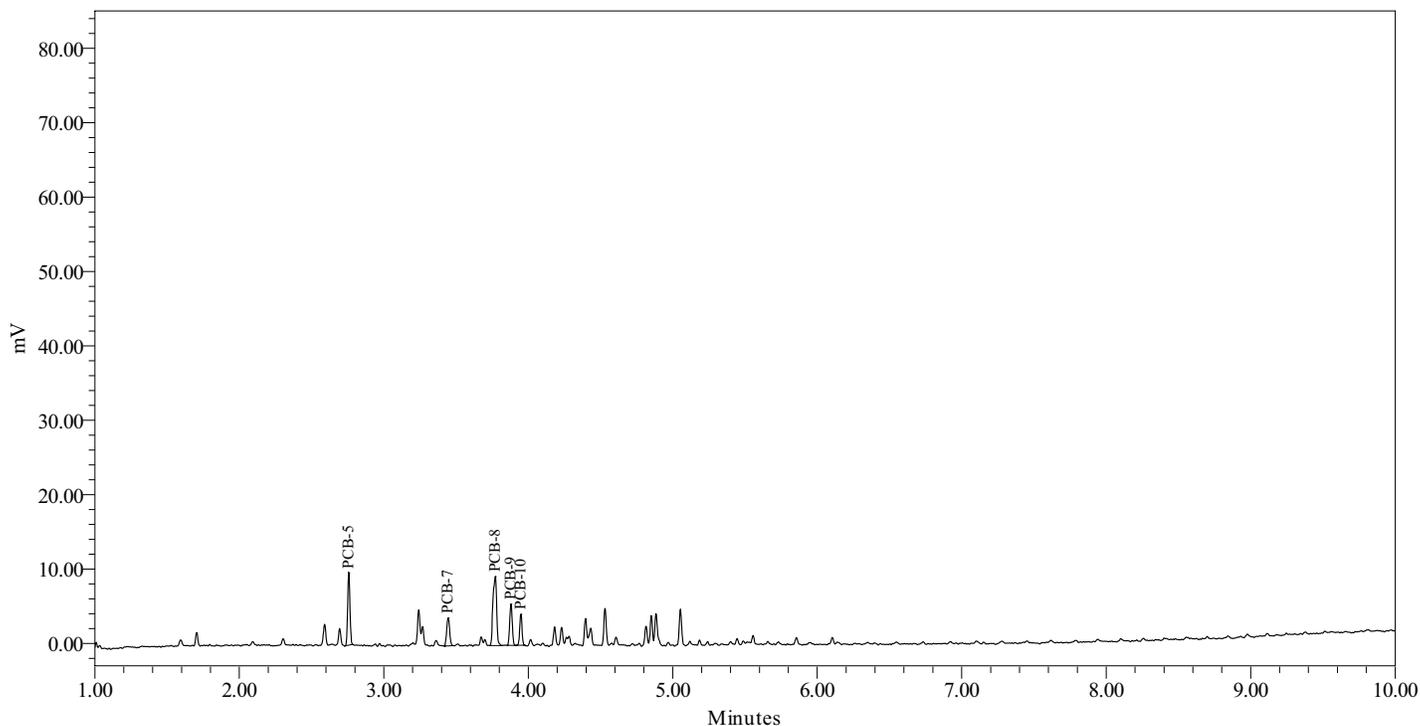
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

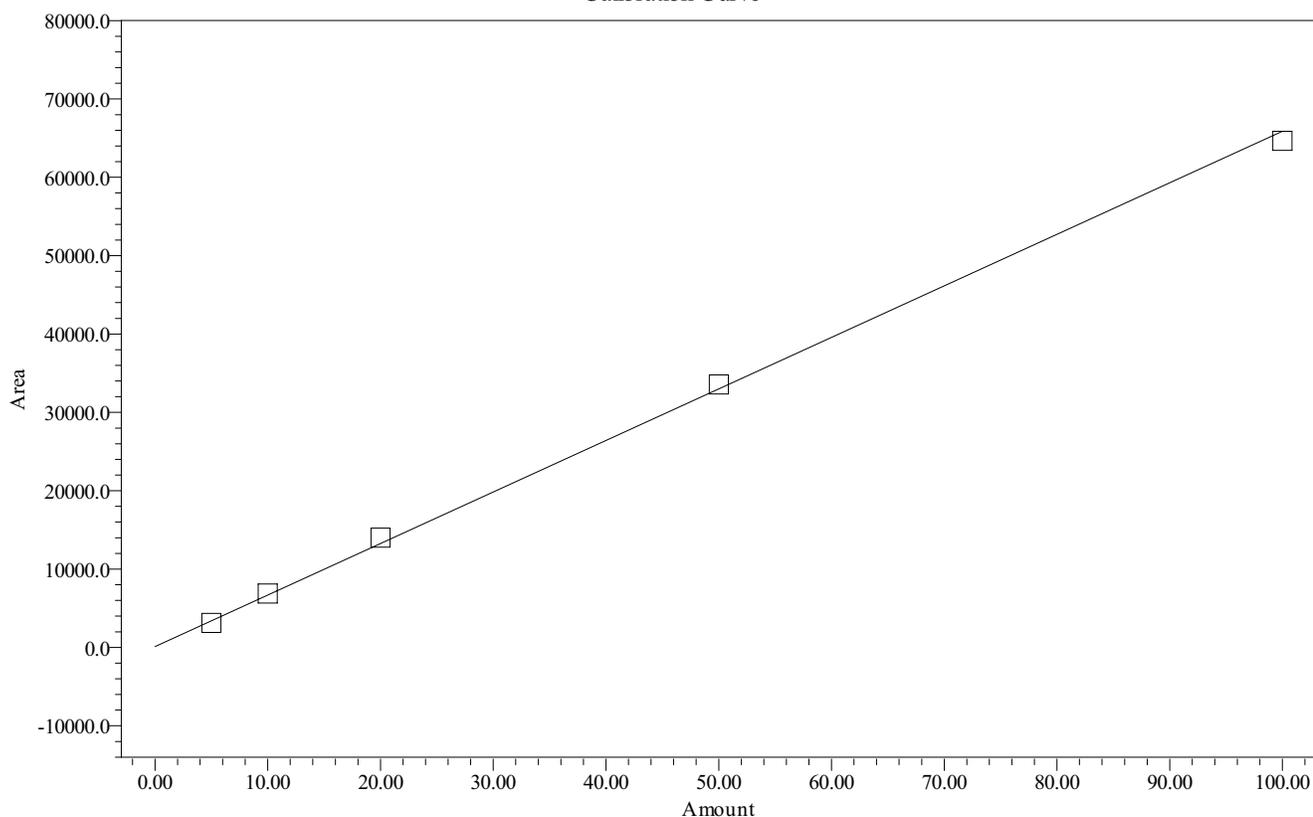
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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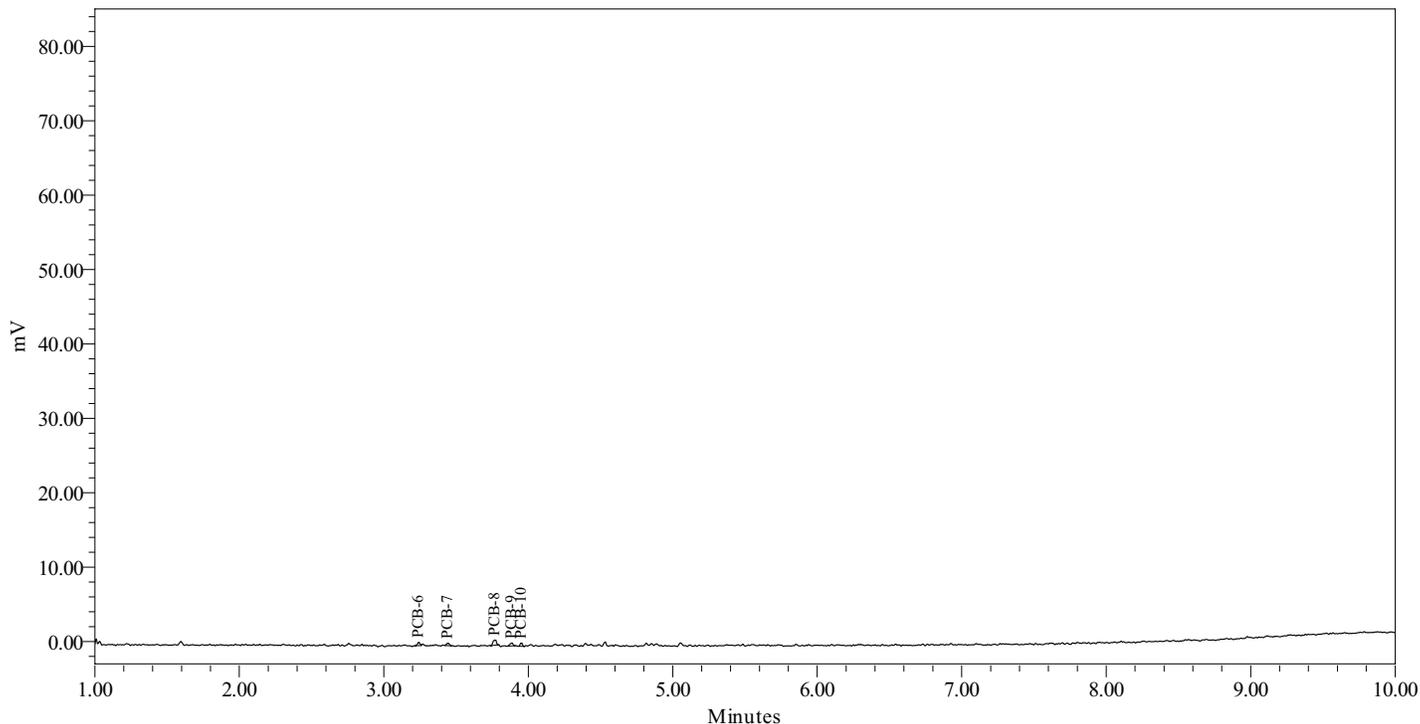
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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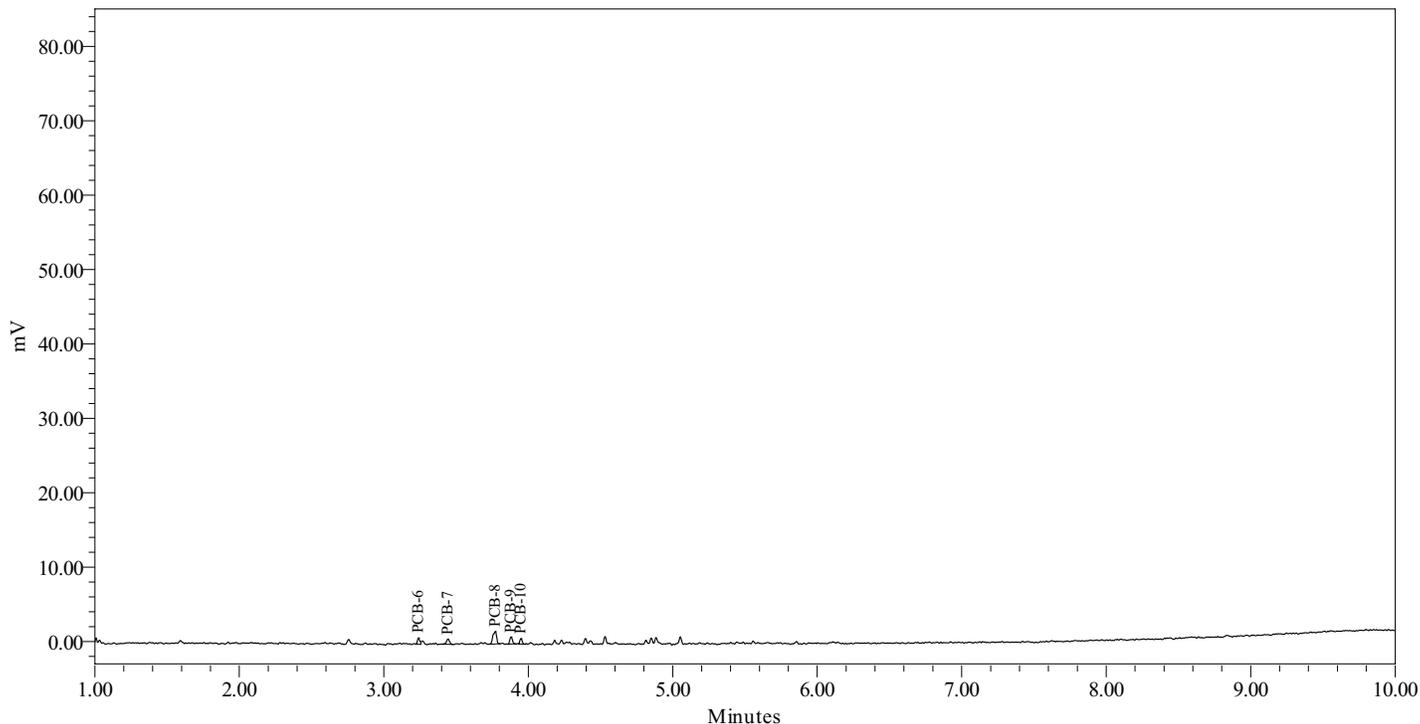
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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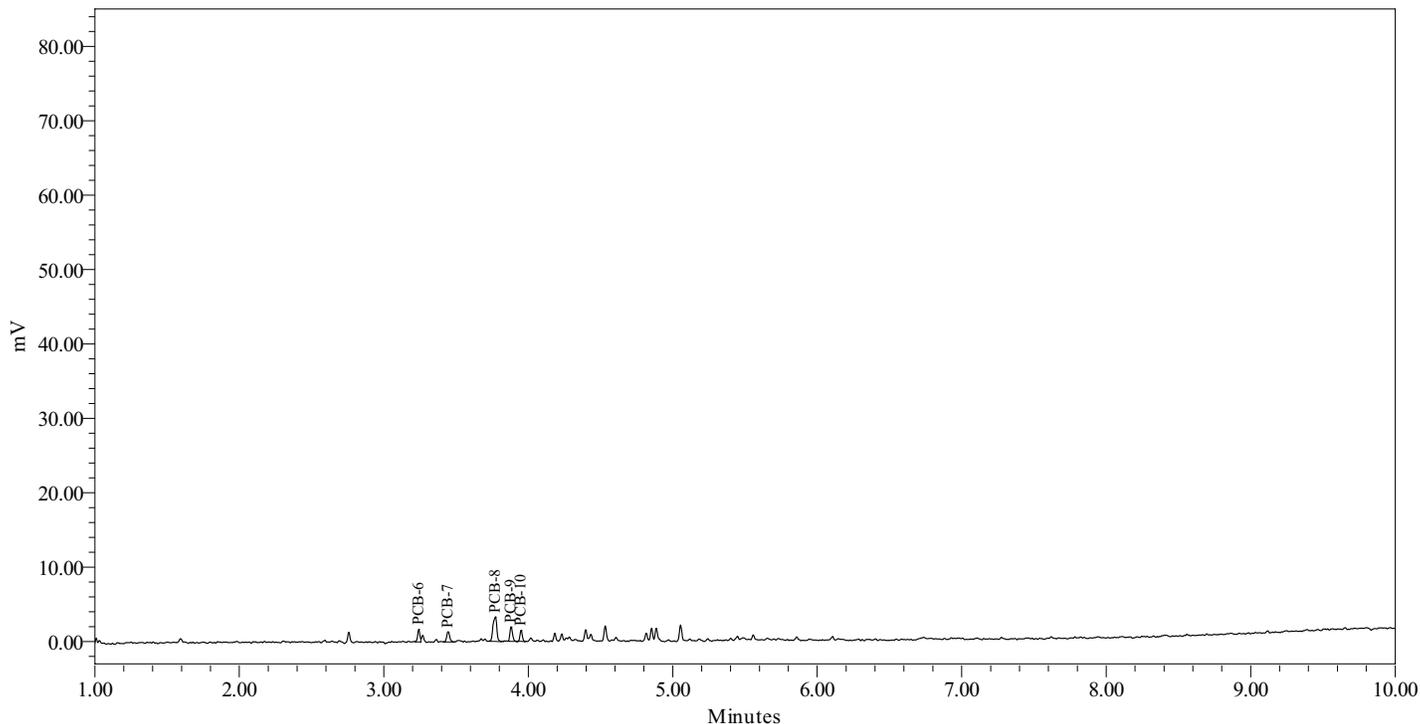
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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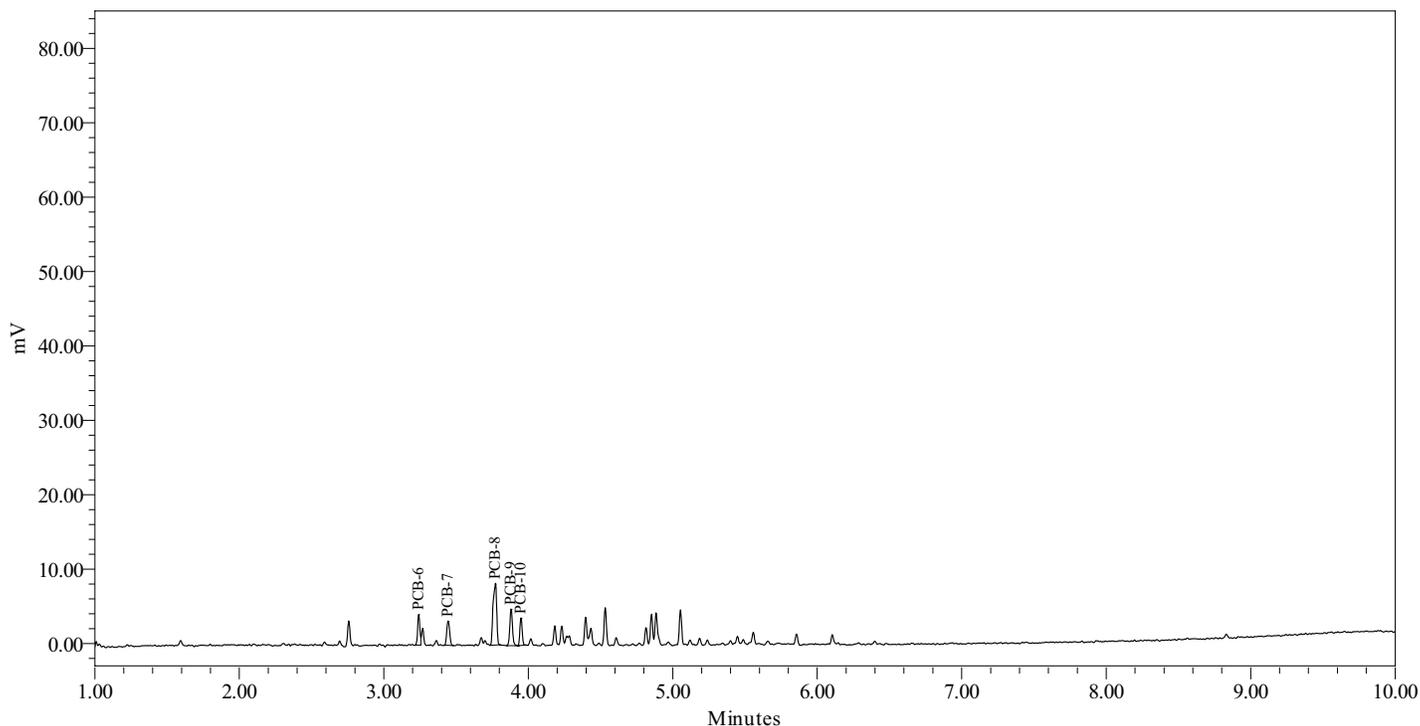
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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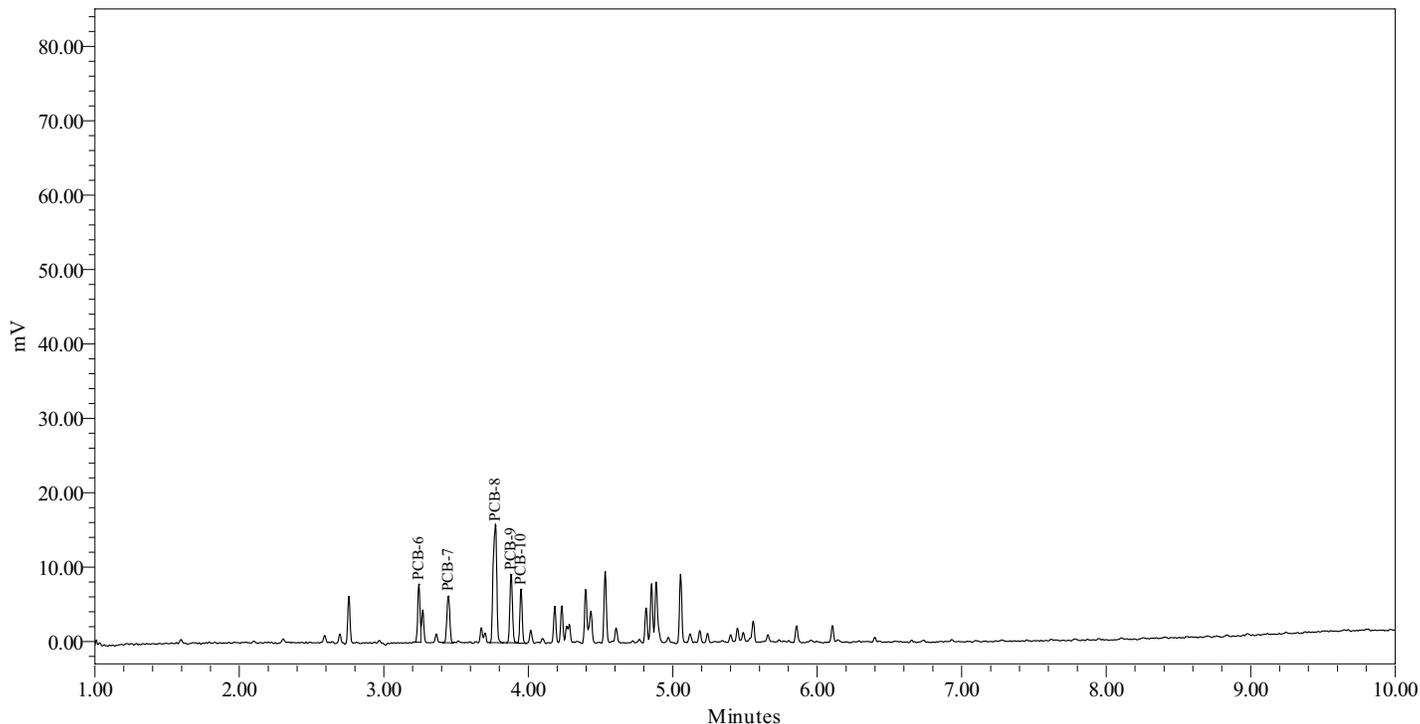
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

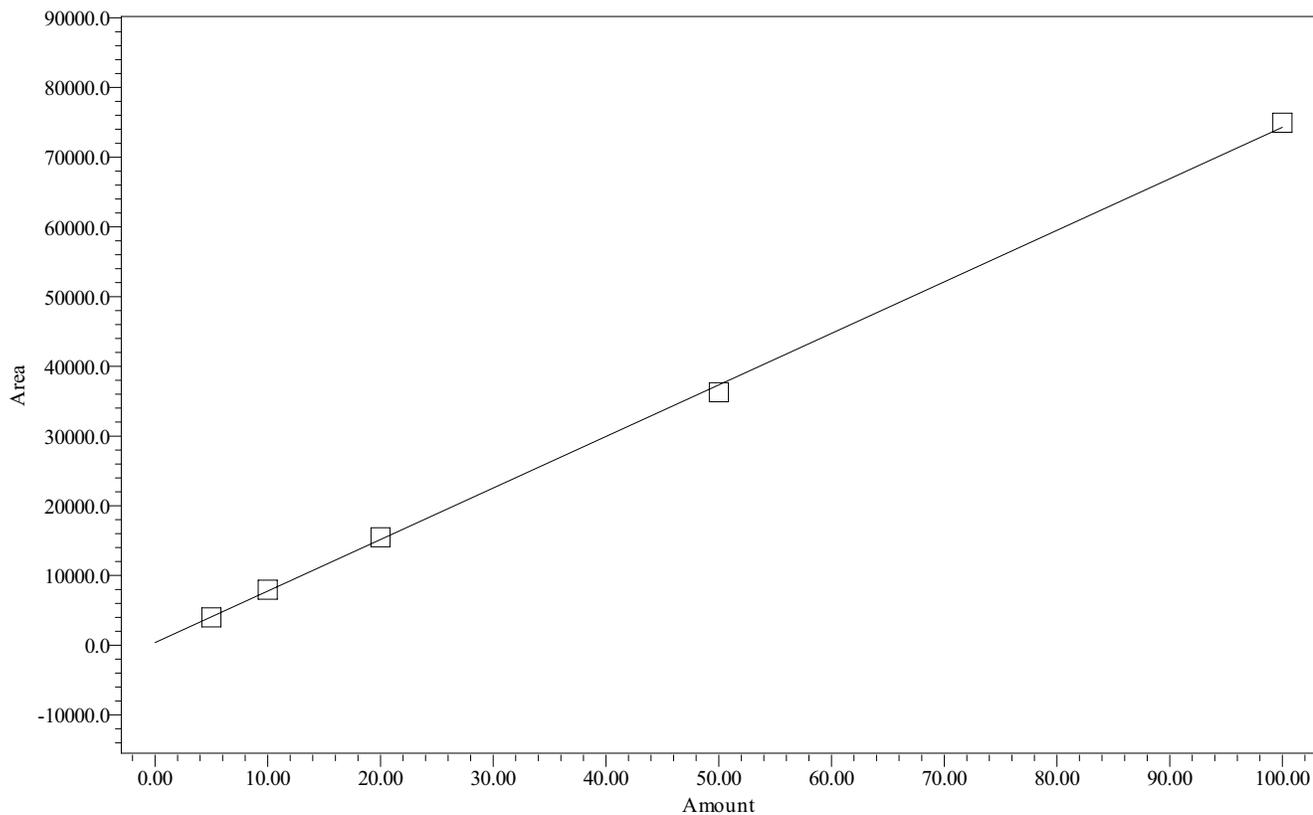
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

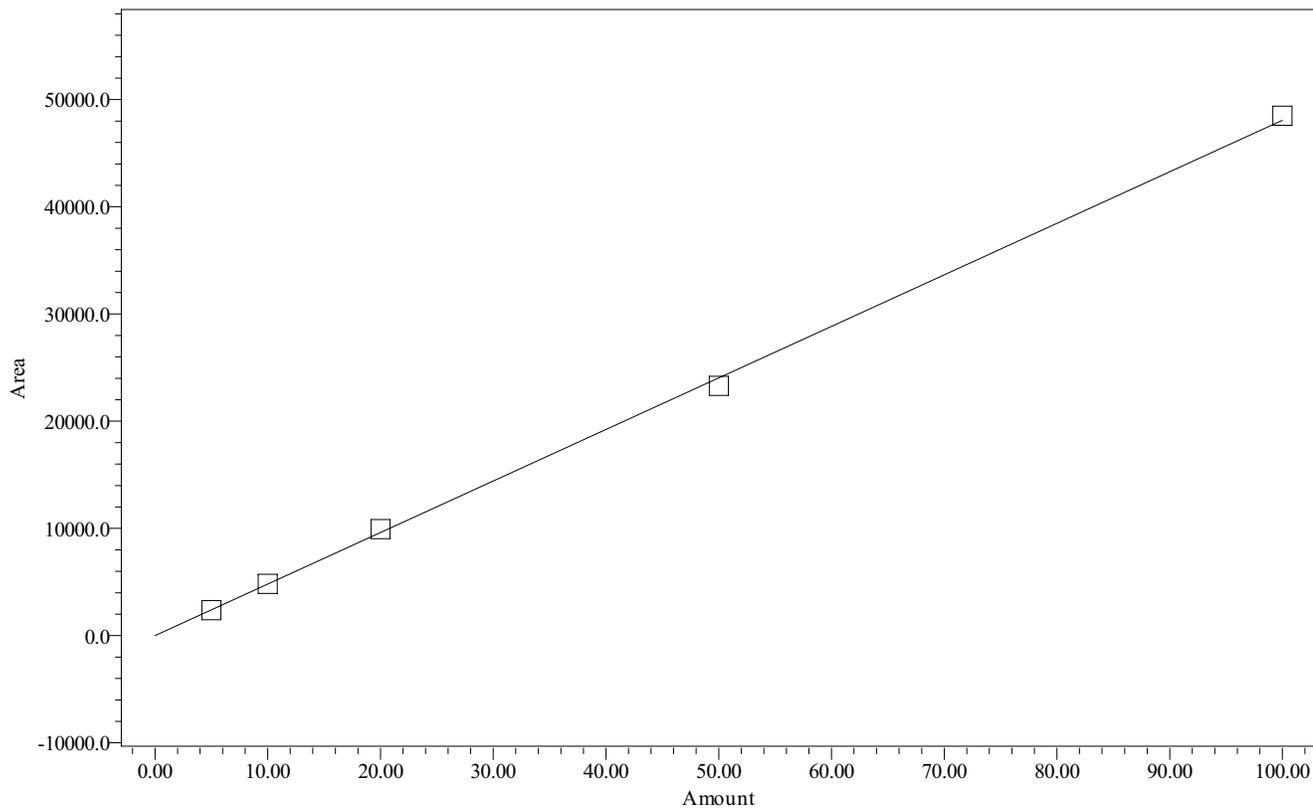
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

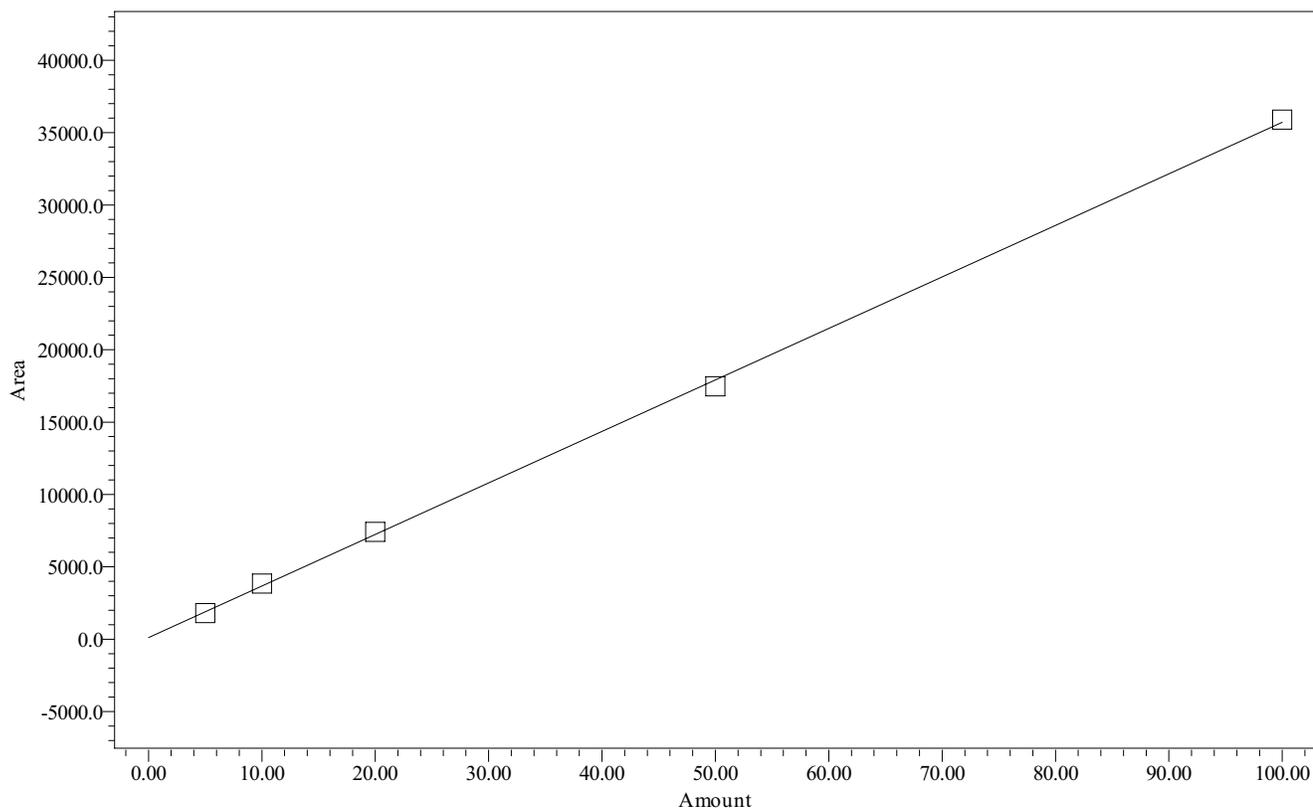
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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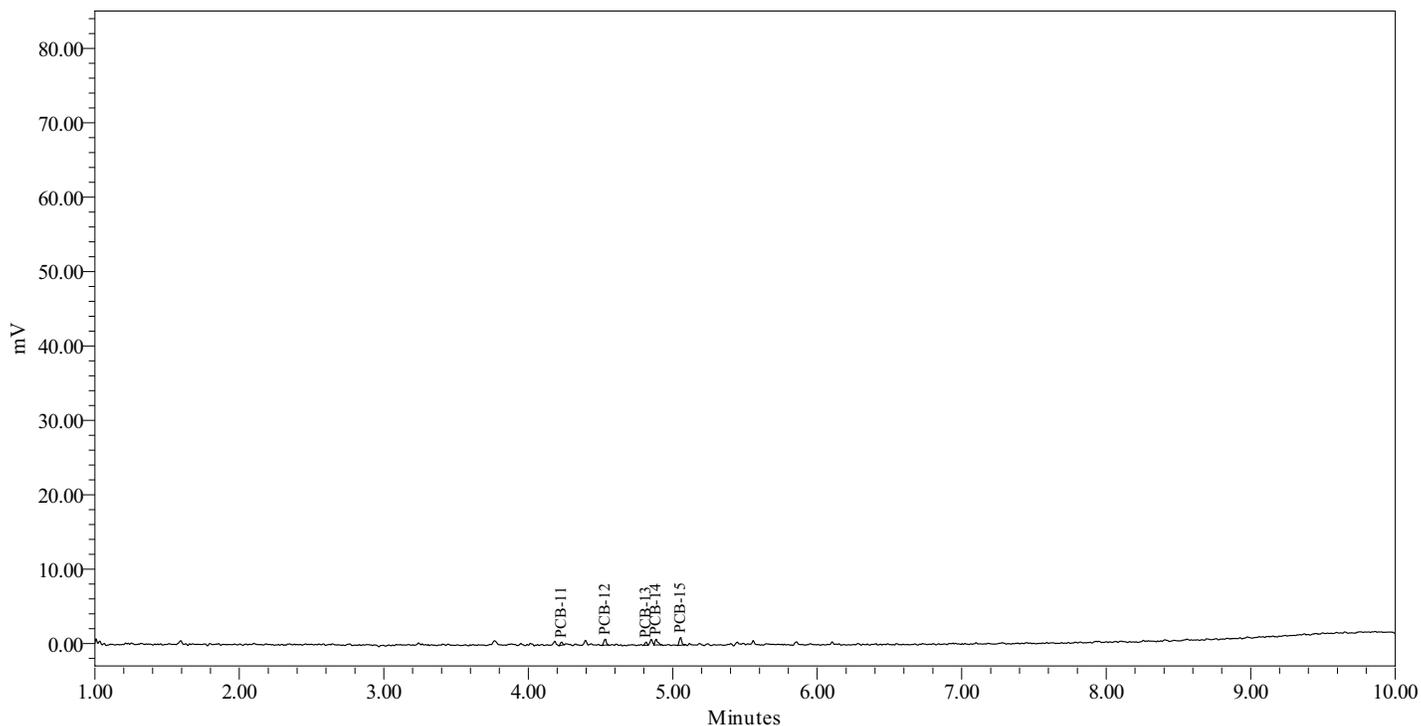
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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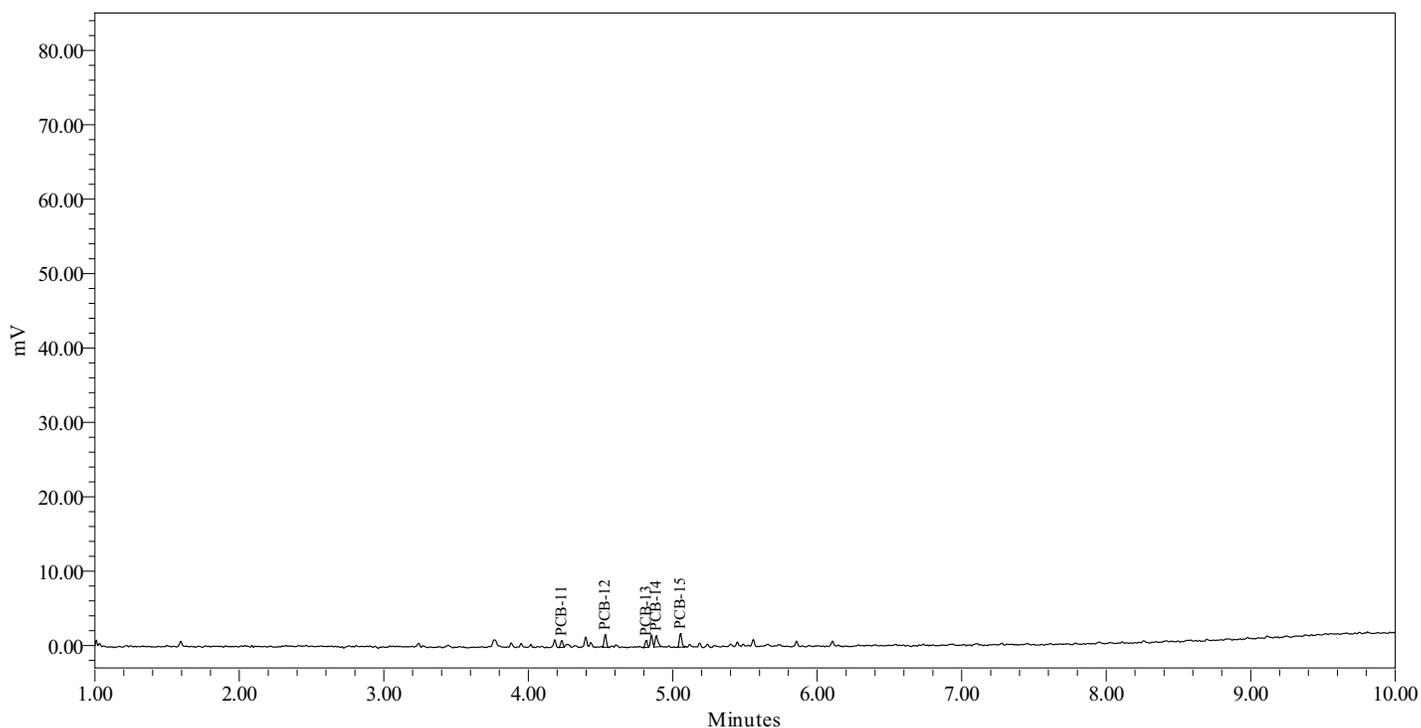
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.231          | bv               | 1011          |
| 2 | PCB-12    | 4.533          | bb               | 1808          |
| 3 | PCB-13    | 4.816          | bV               | 1021          |
| 4 | PCB-14    | 4.886          | Vb               | 2005          |
| 5 | PCB-15    | 5.054          | bb               | 2102          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 7948                | 10.000               |
| 2 | A1248-11/15 | 4835                | 10.000               |
| 3 | A1248-14/15 | 3841                | 10.000               |



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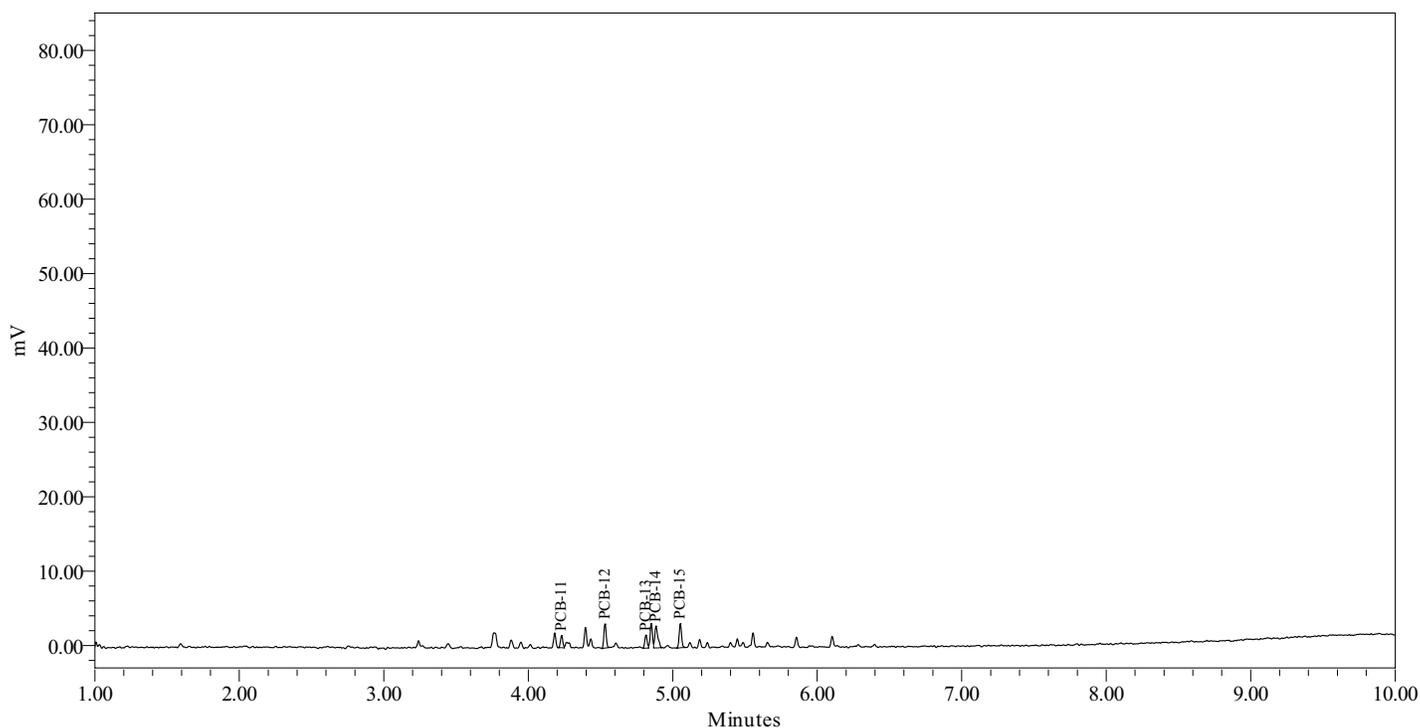
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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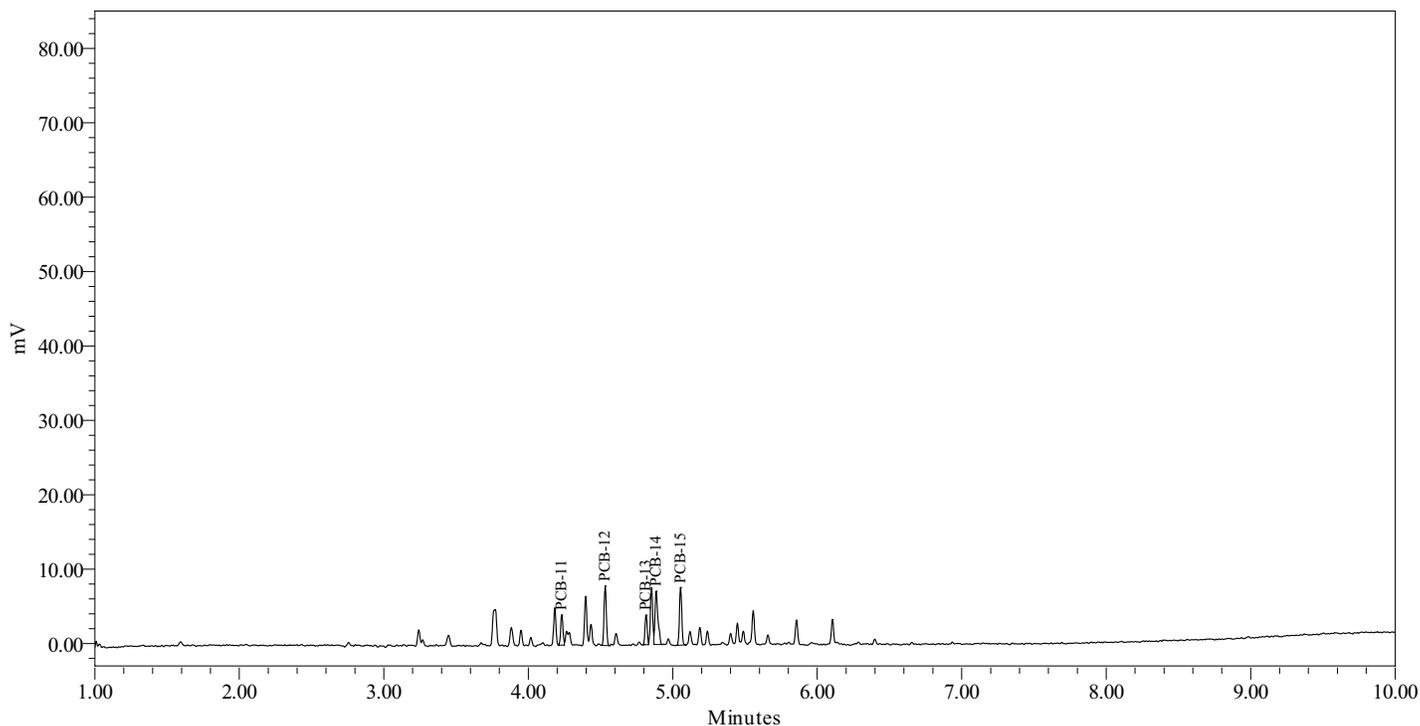
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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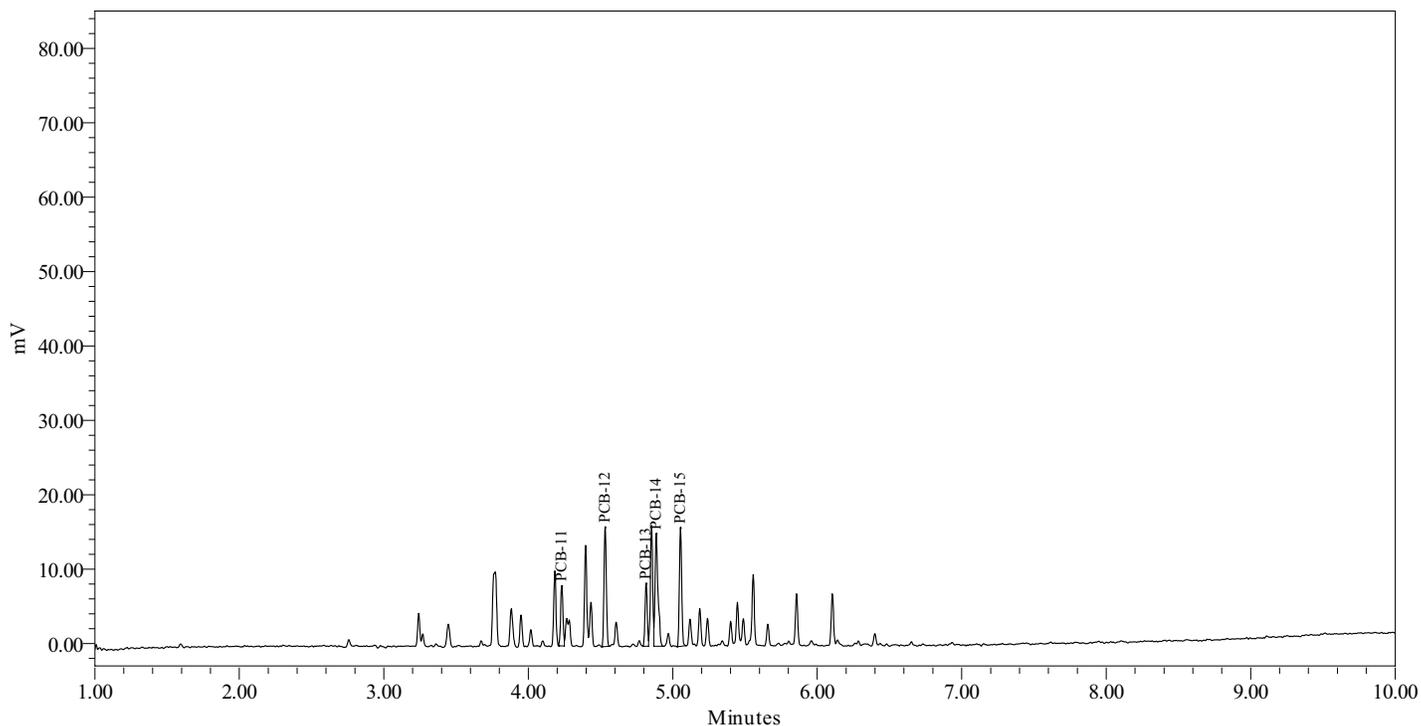
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

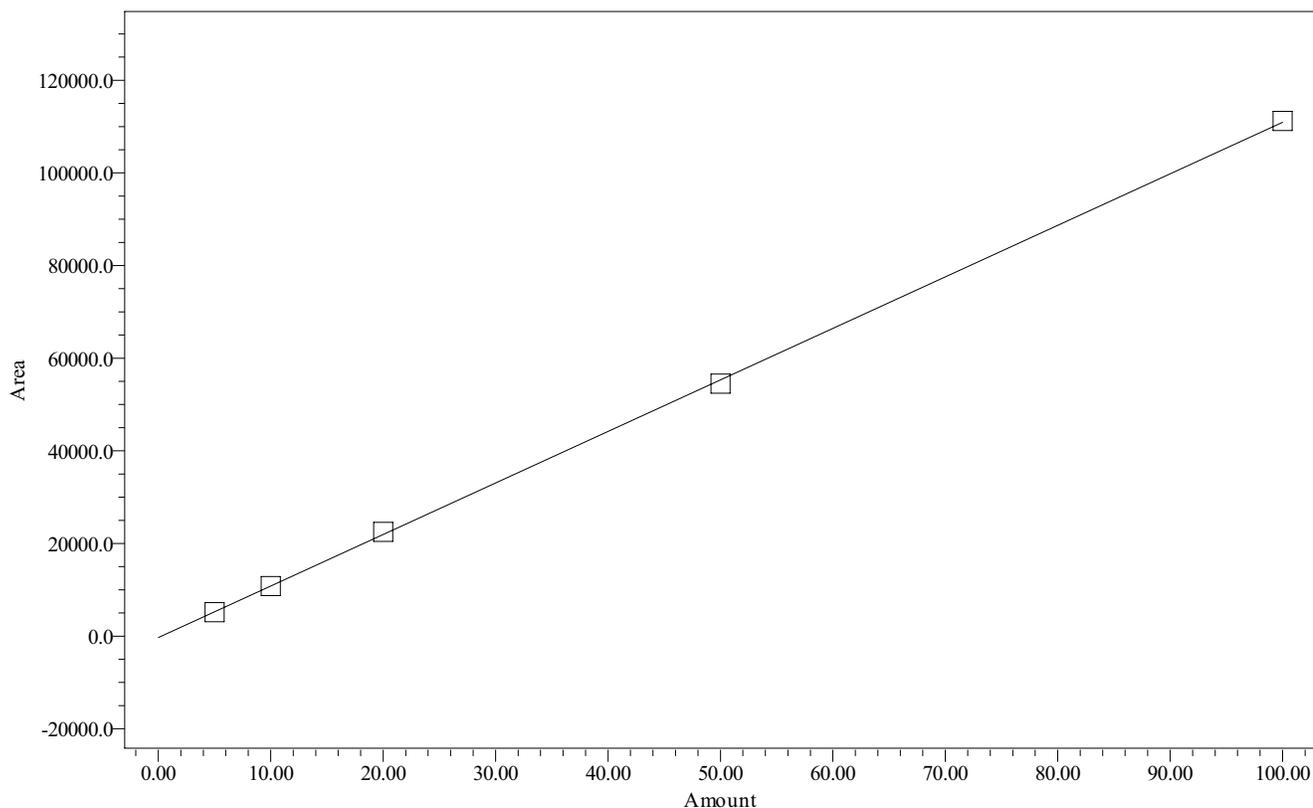
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

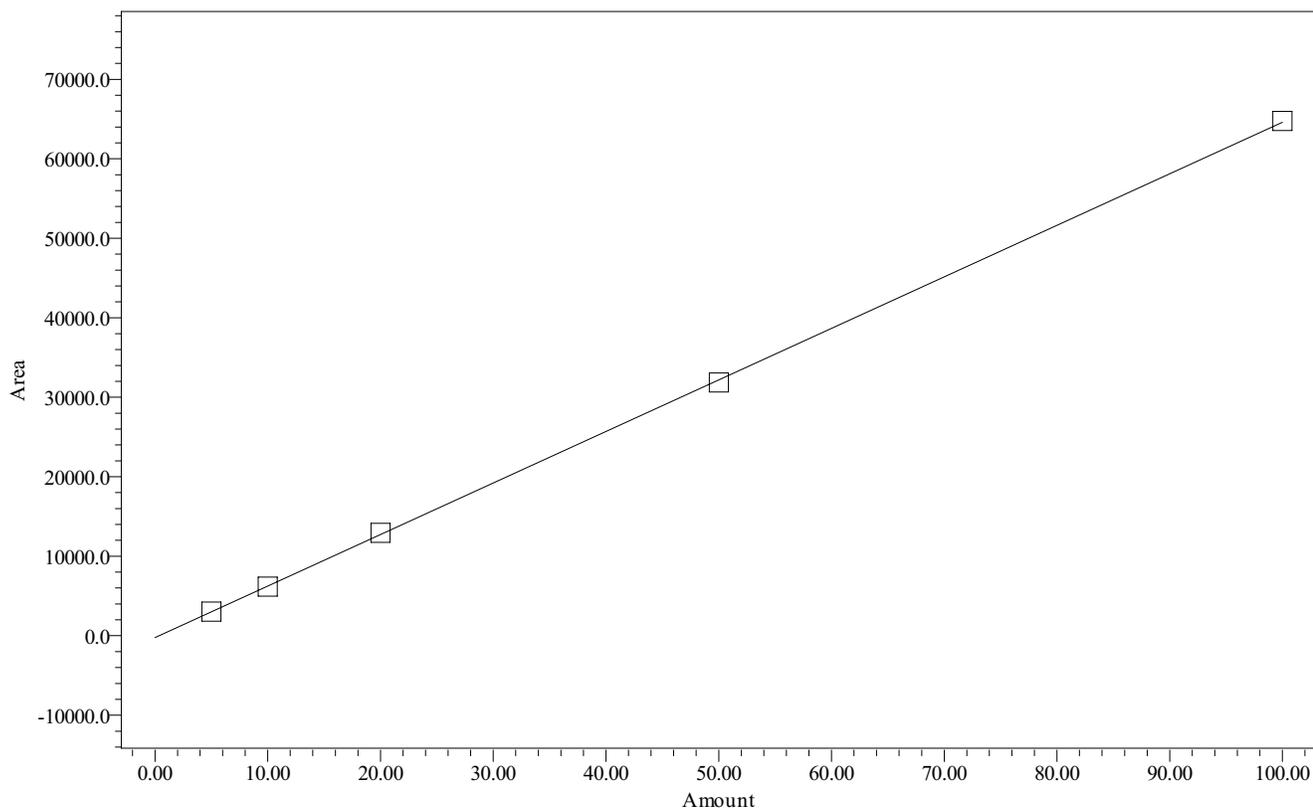
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



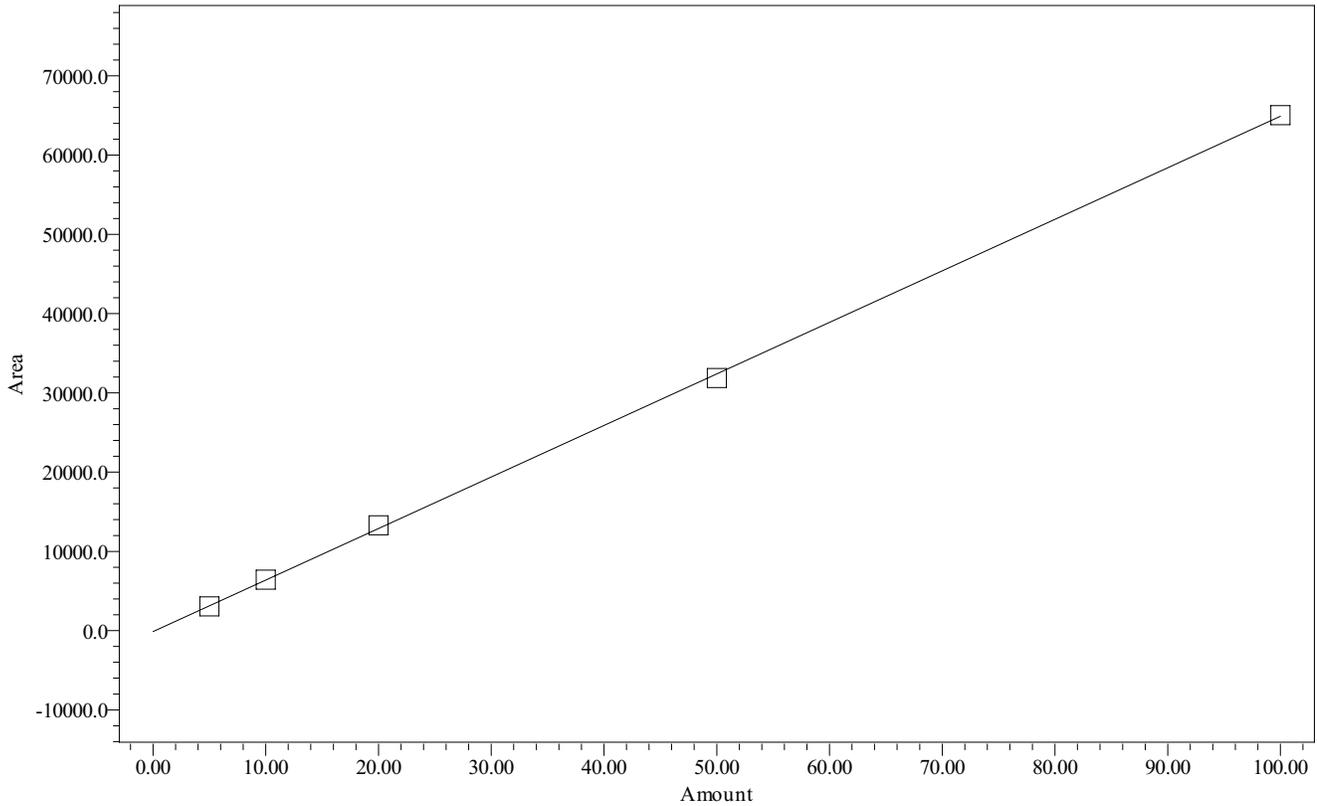
Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

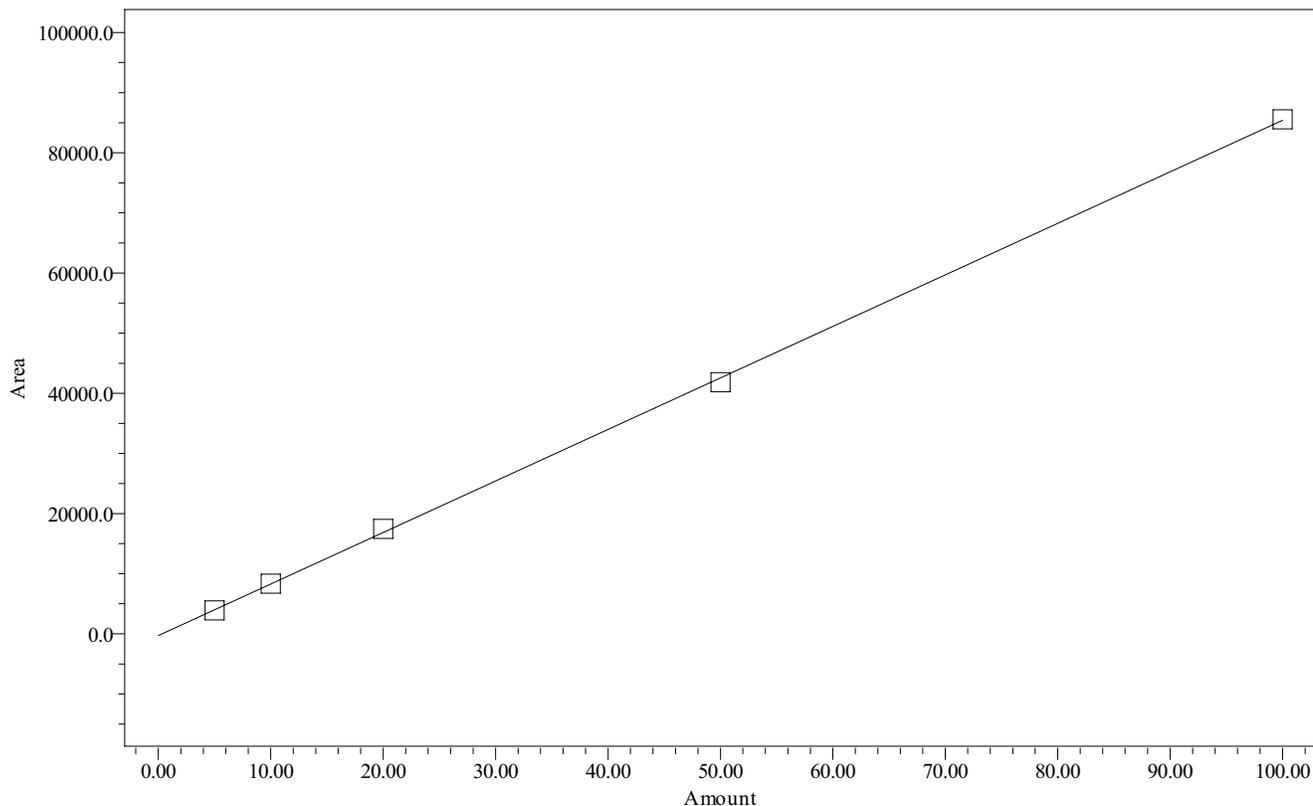
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

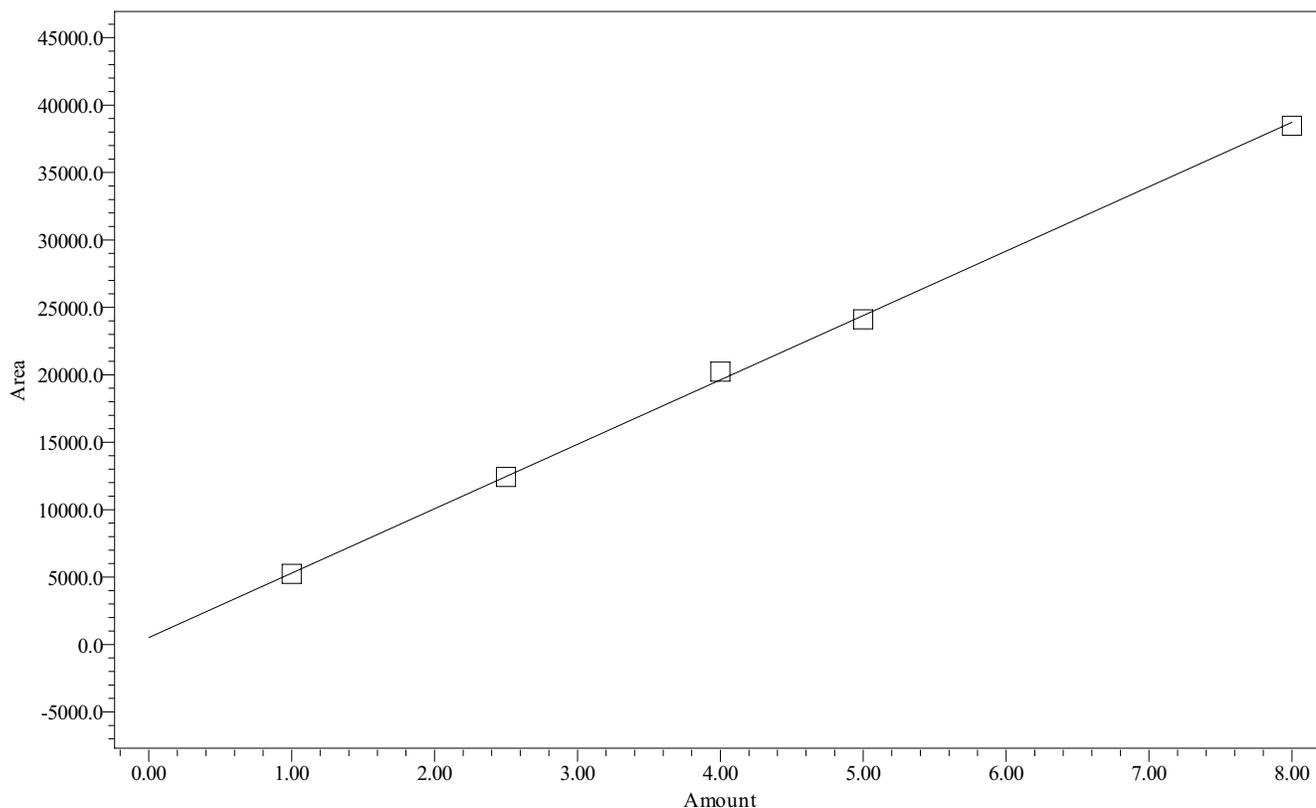
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

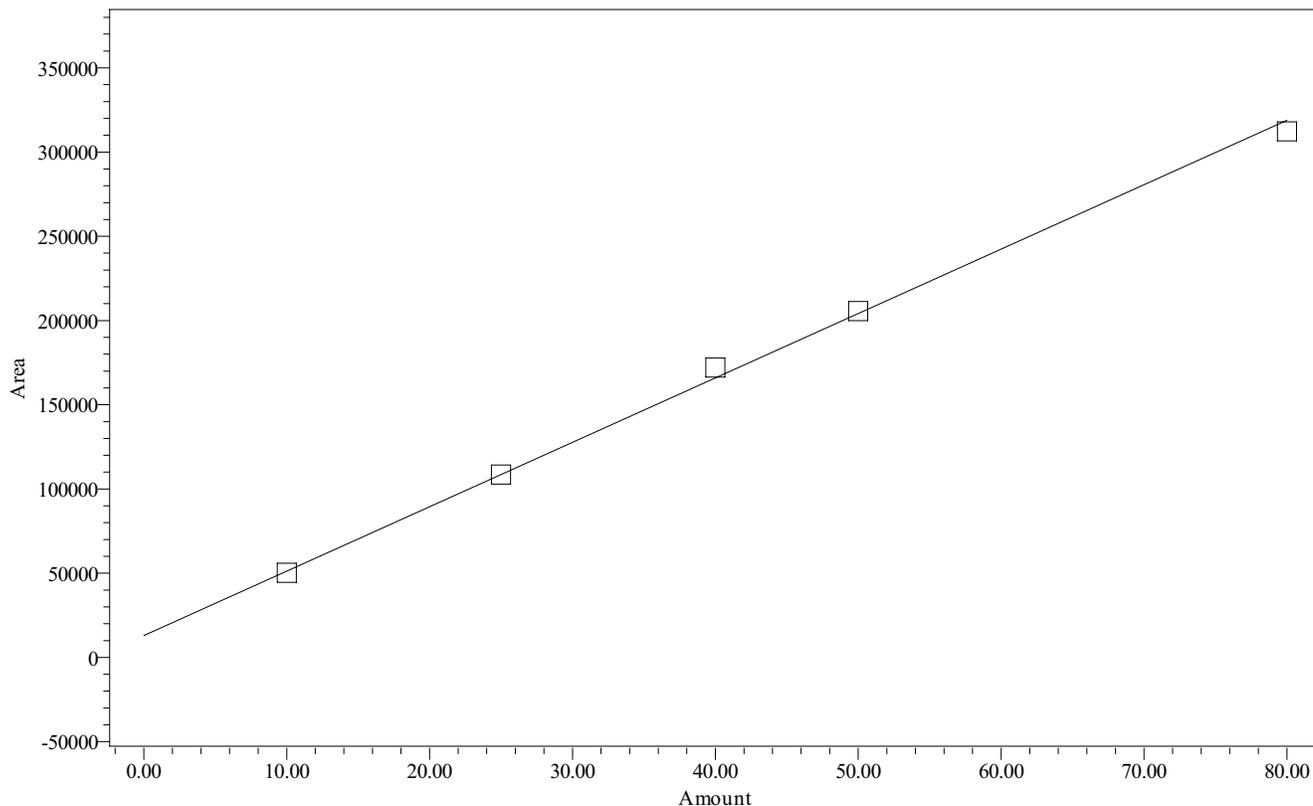
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|                    |                          |   |              |
|--------------------|--------------------------|---|--------------|
| Name:              | DCBP                     | Coefficient constant A:                       | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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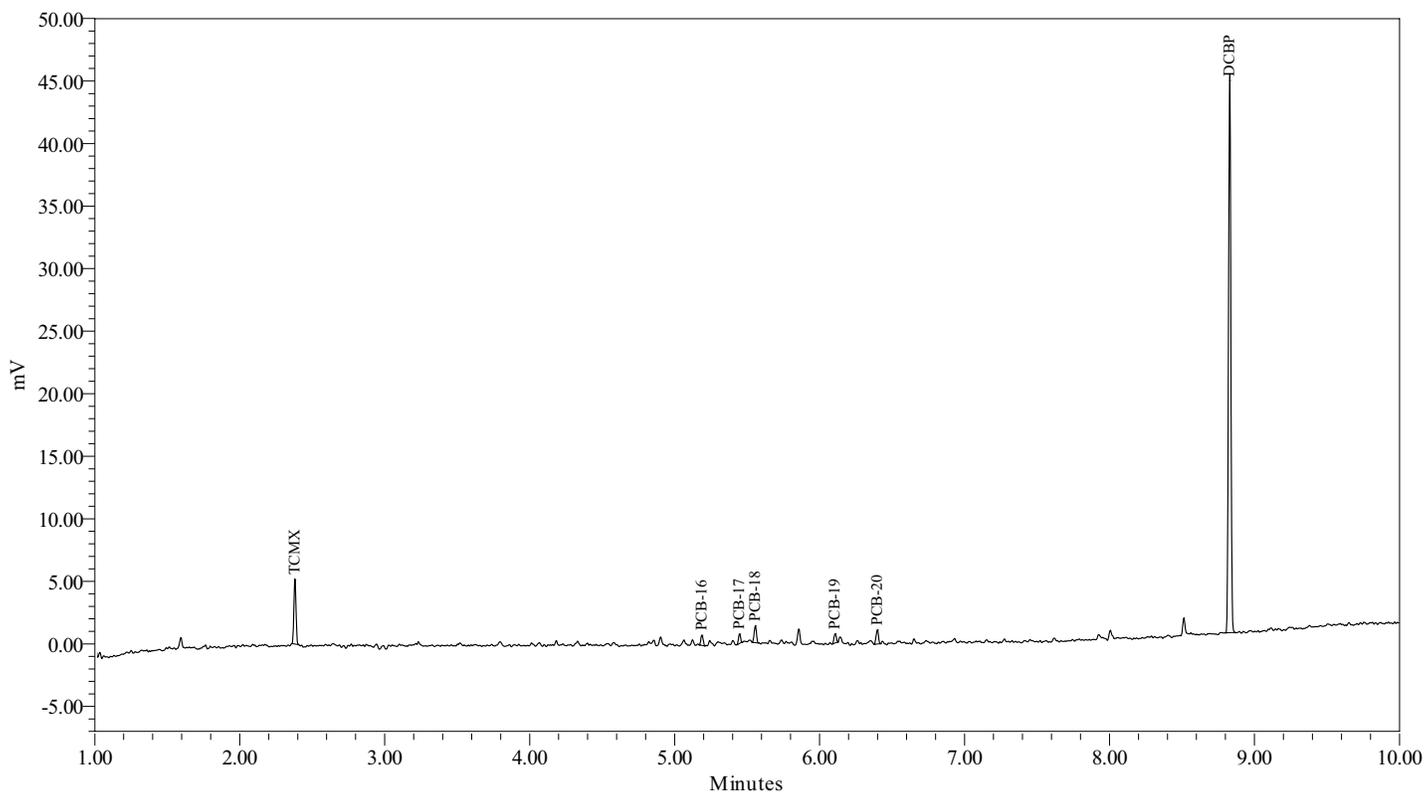
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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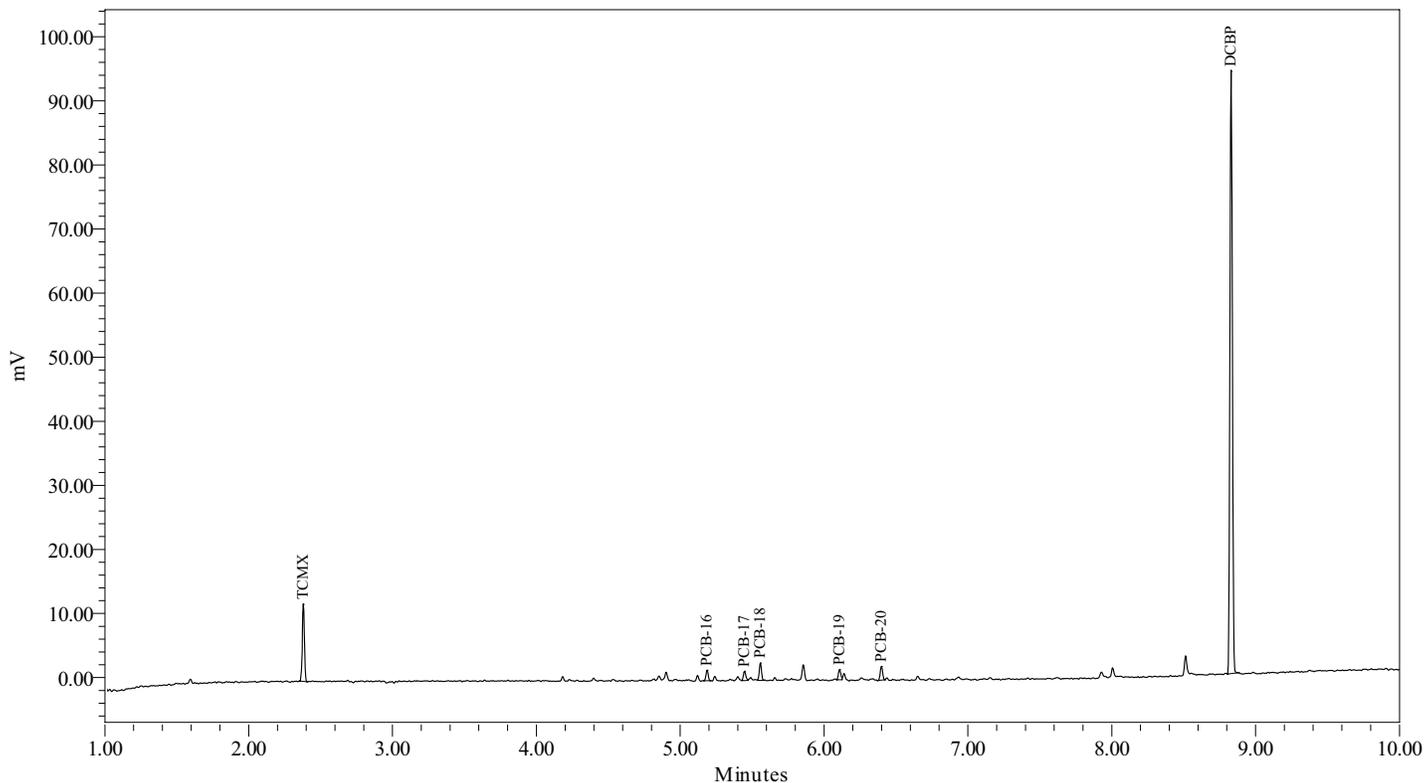
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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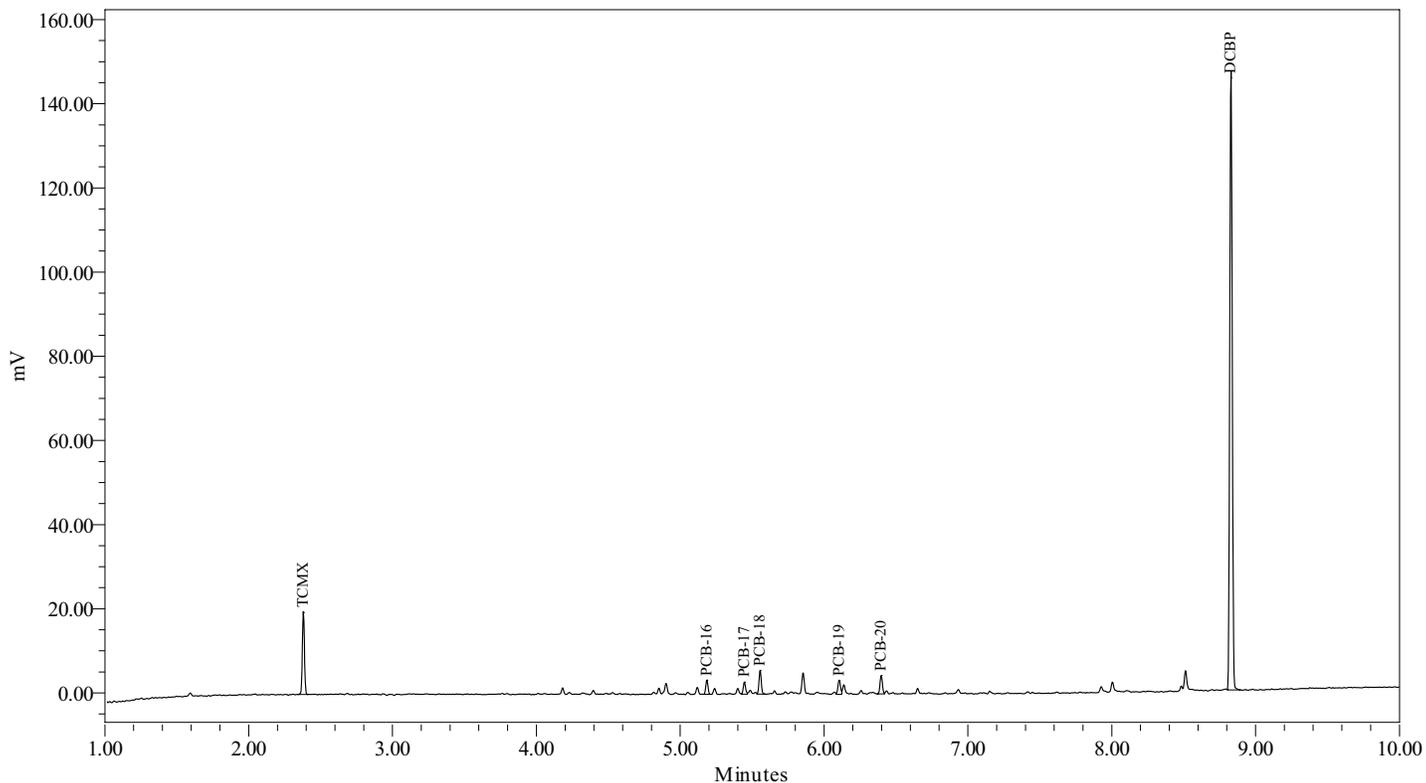
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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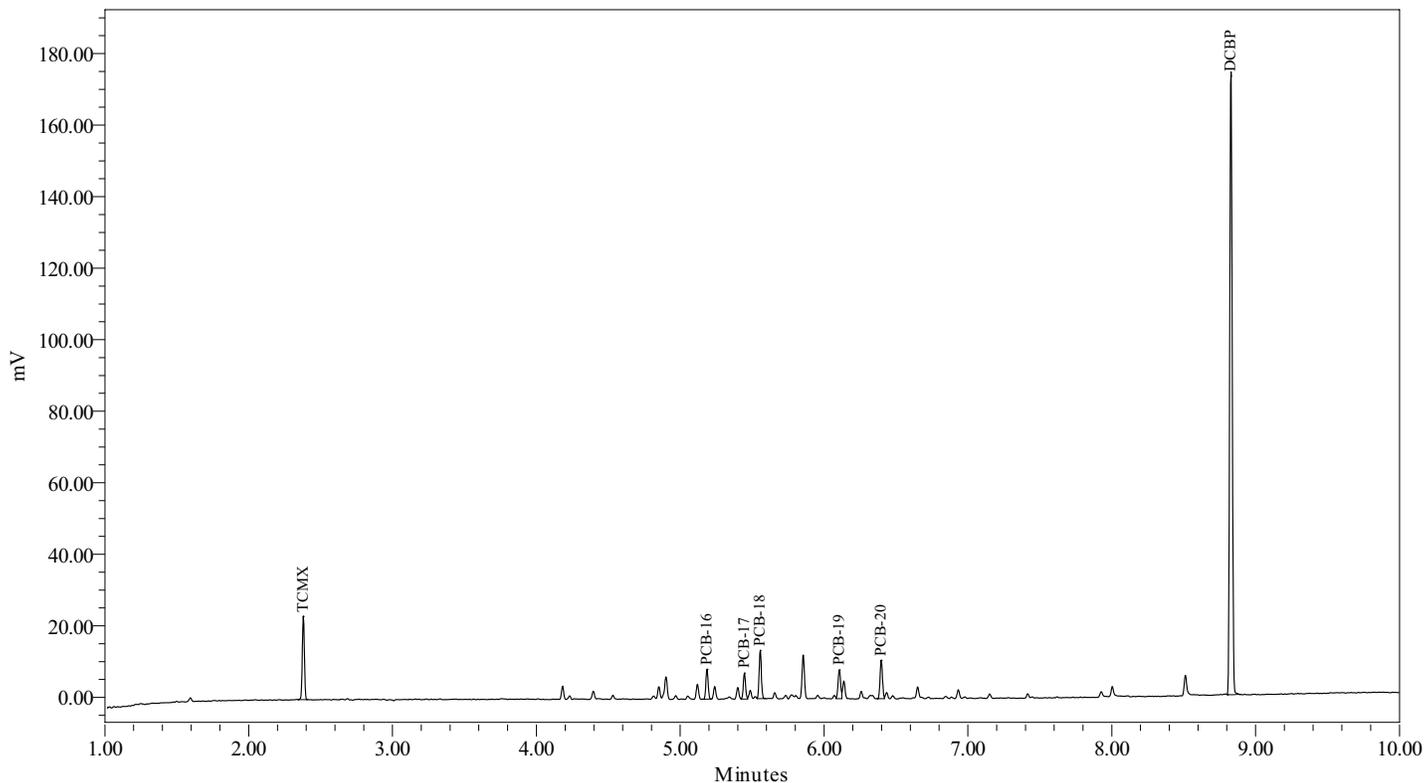
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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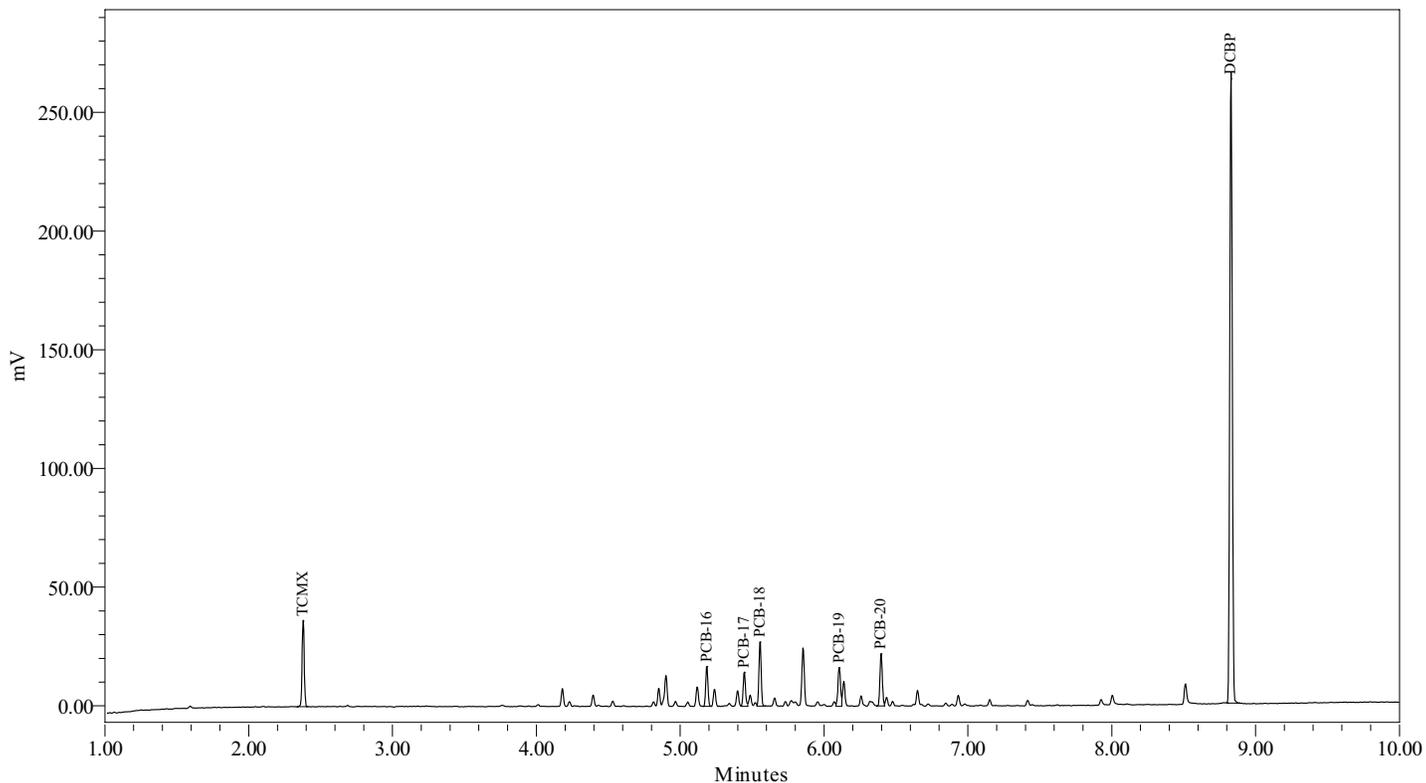
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

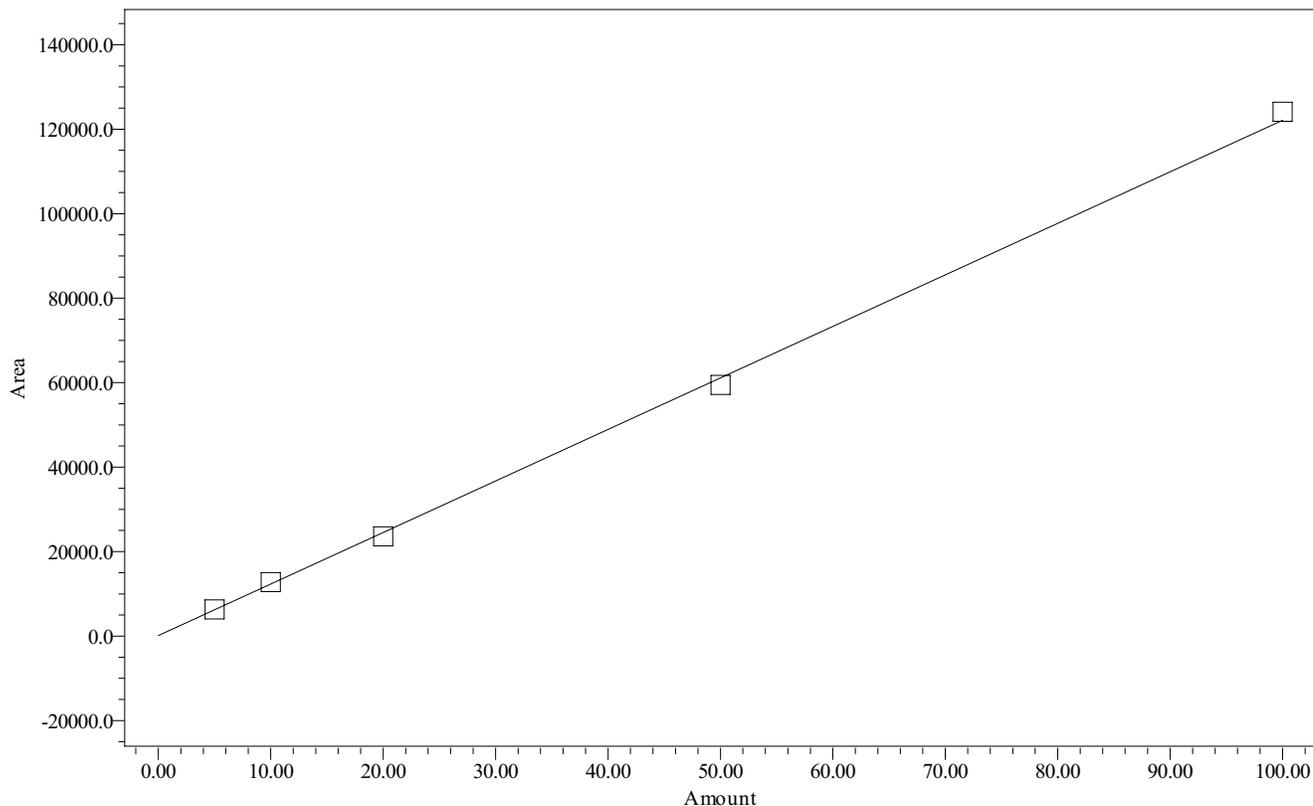
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

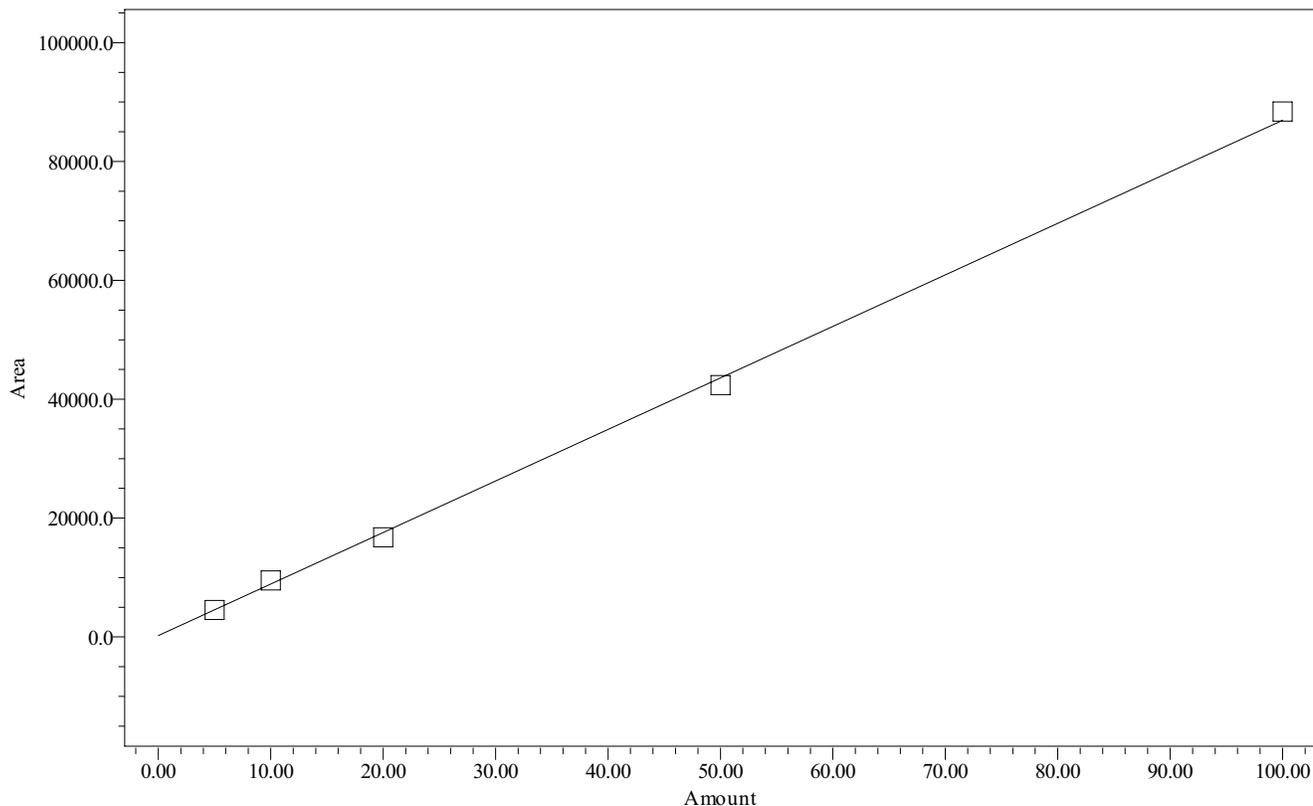
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

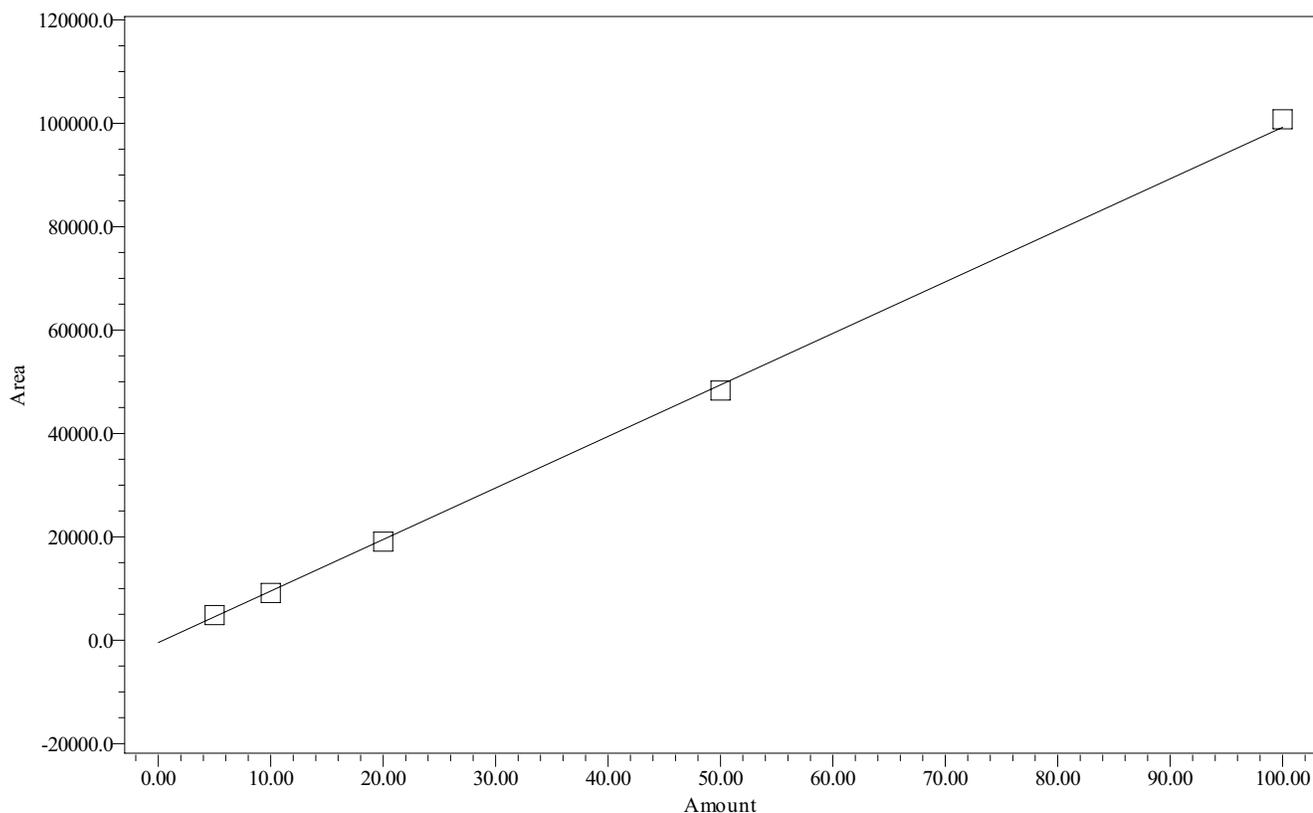
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00          | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00         | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00         | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00         | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00        | 100777   | 101.6       | 1.561       | No     | No     |

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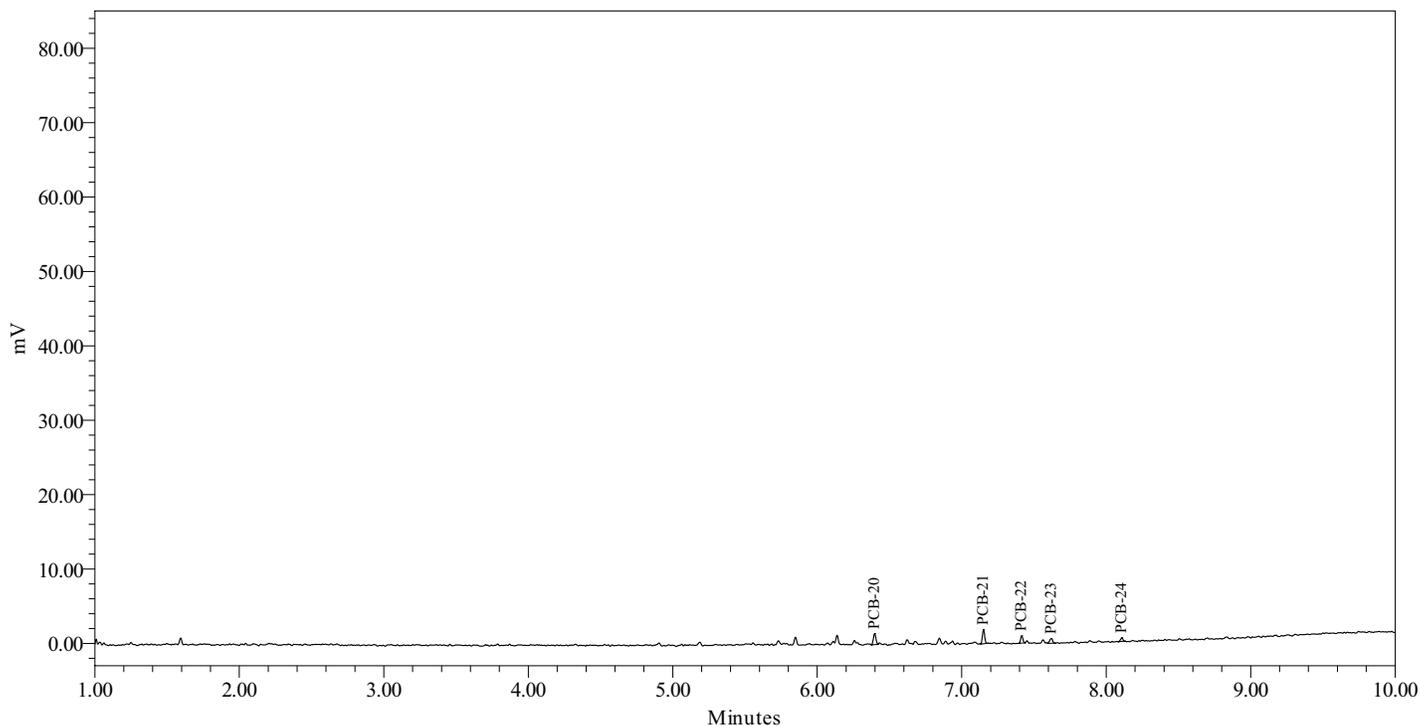
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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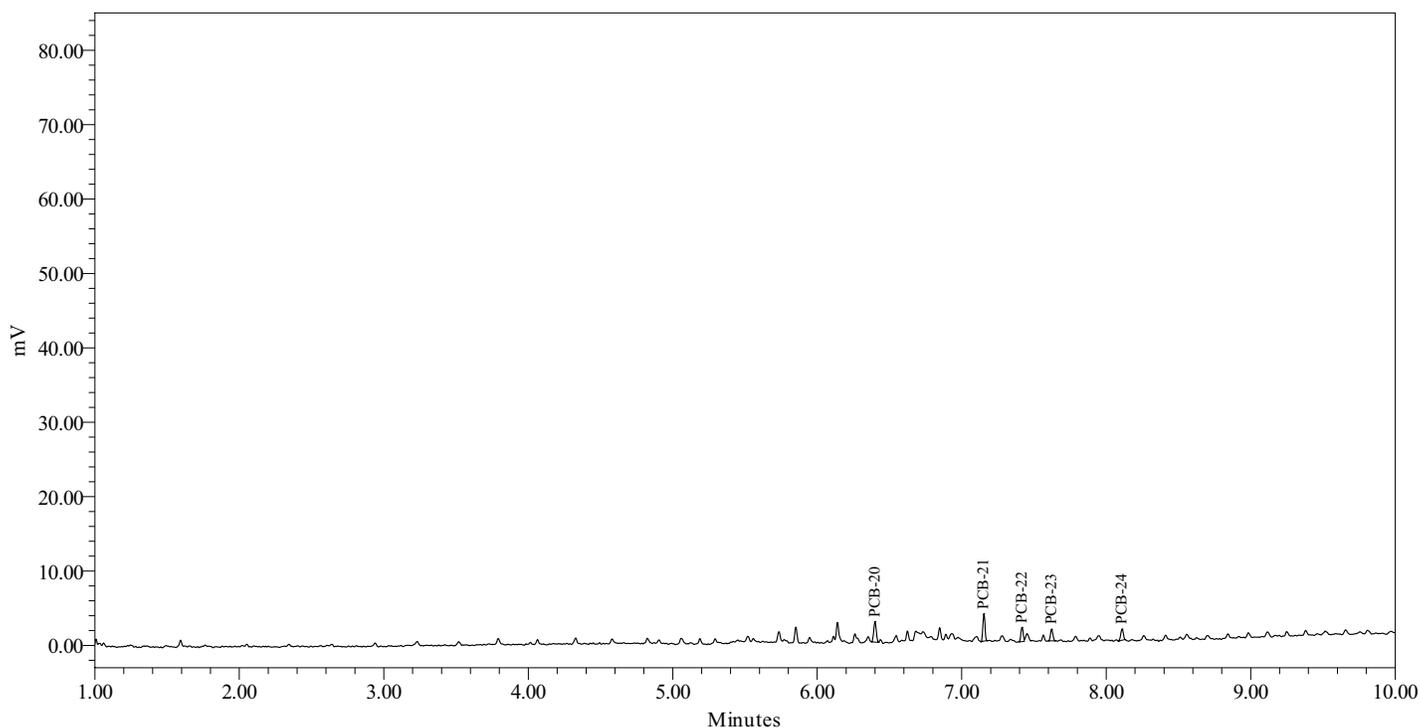
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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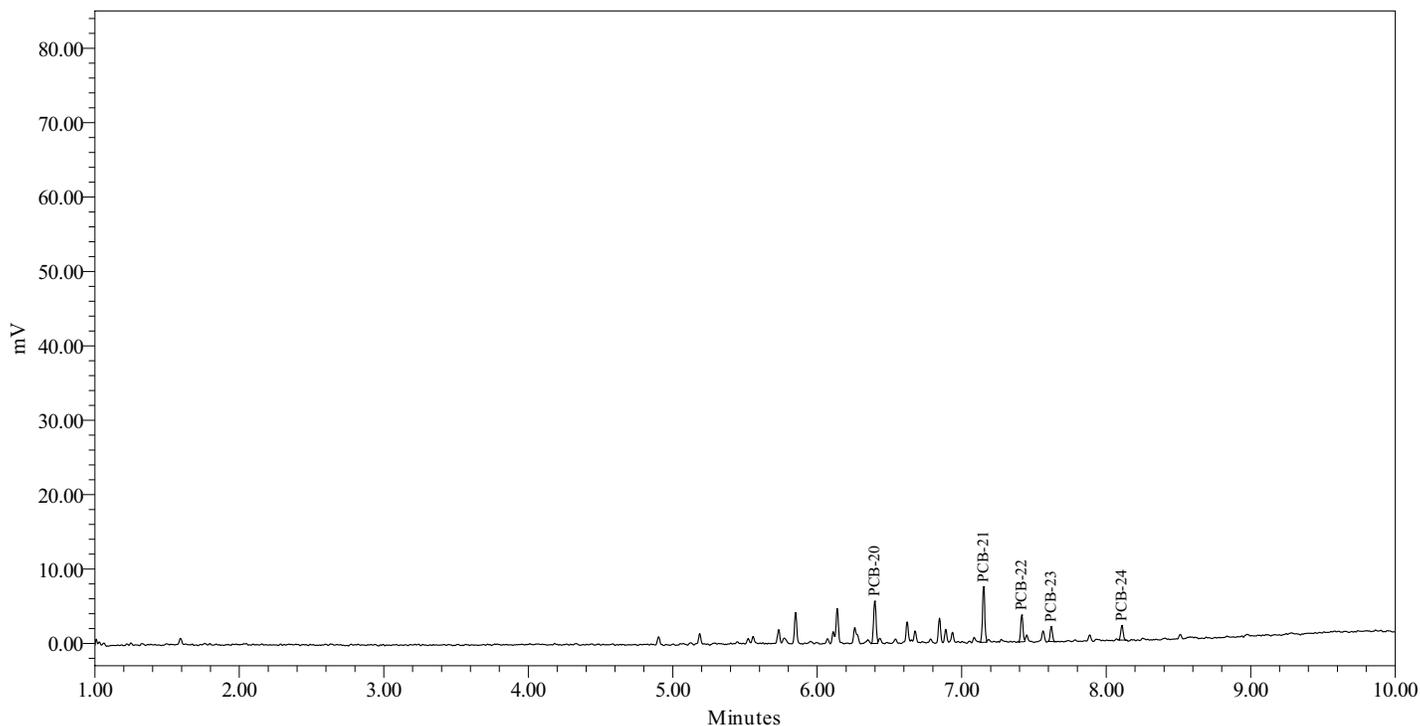
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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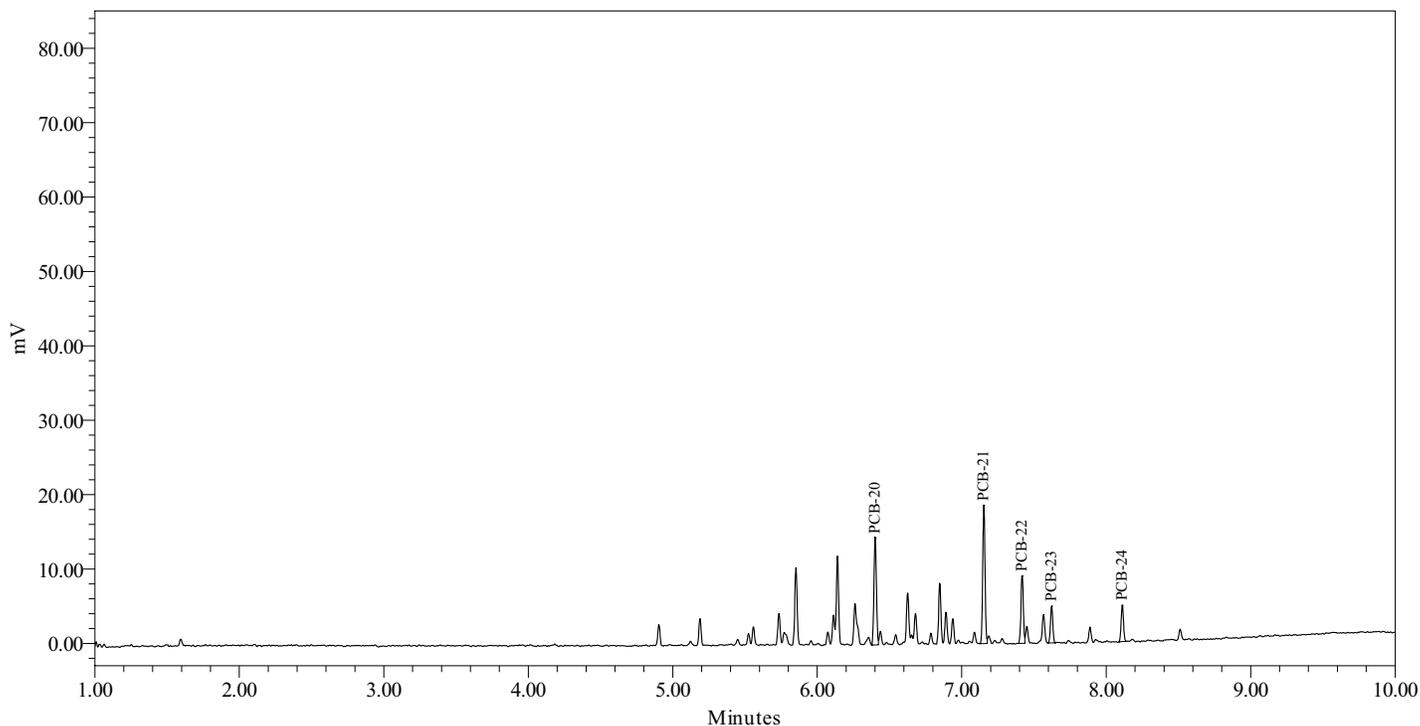
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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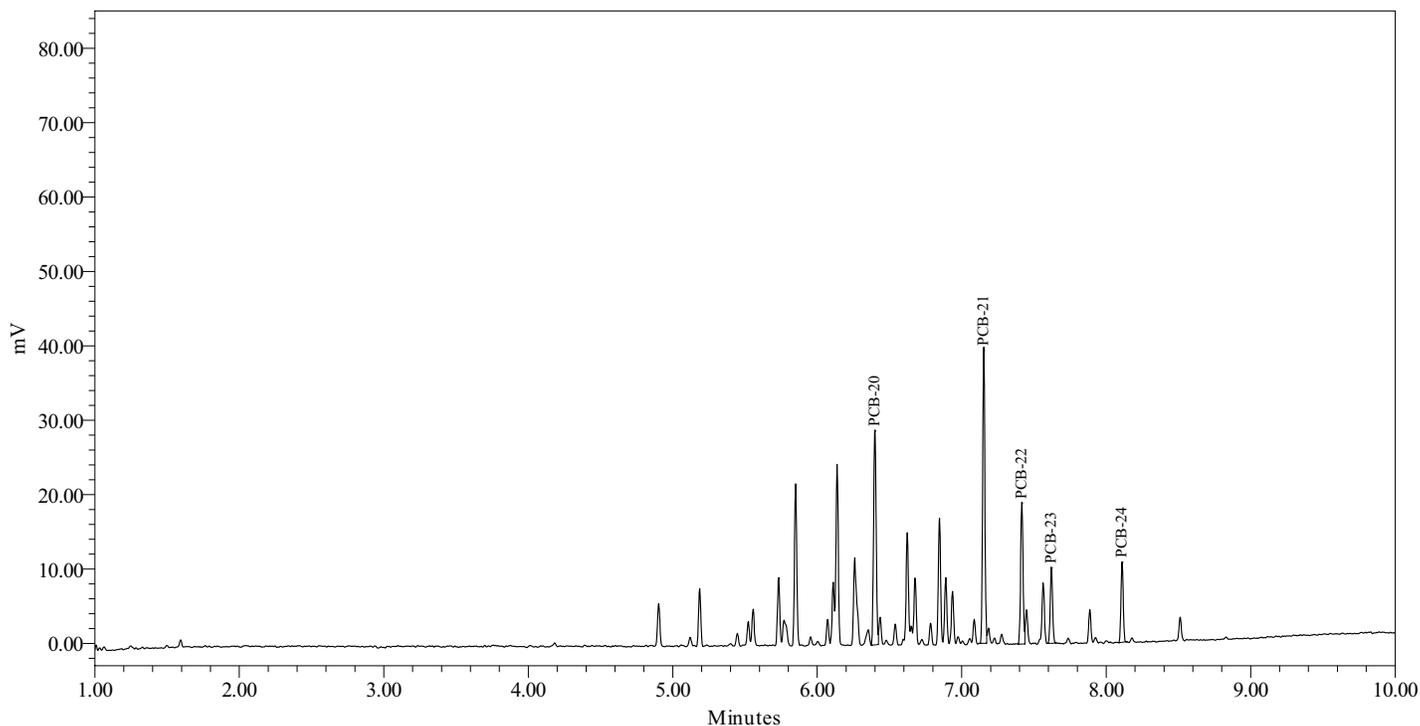
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

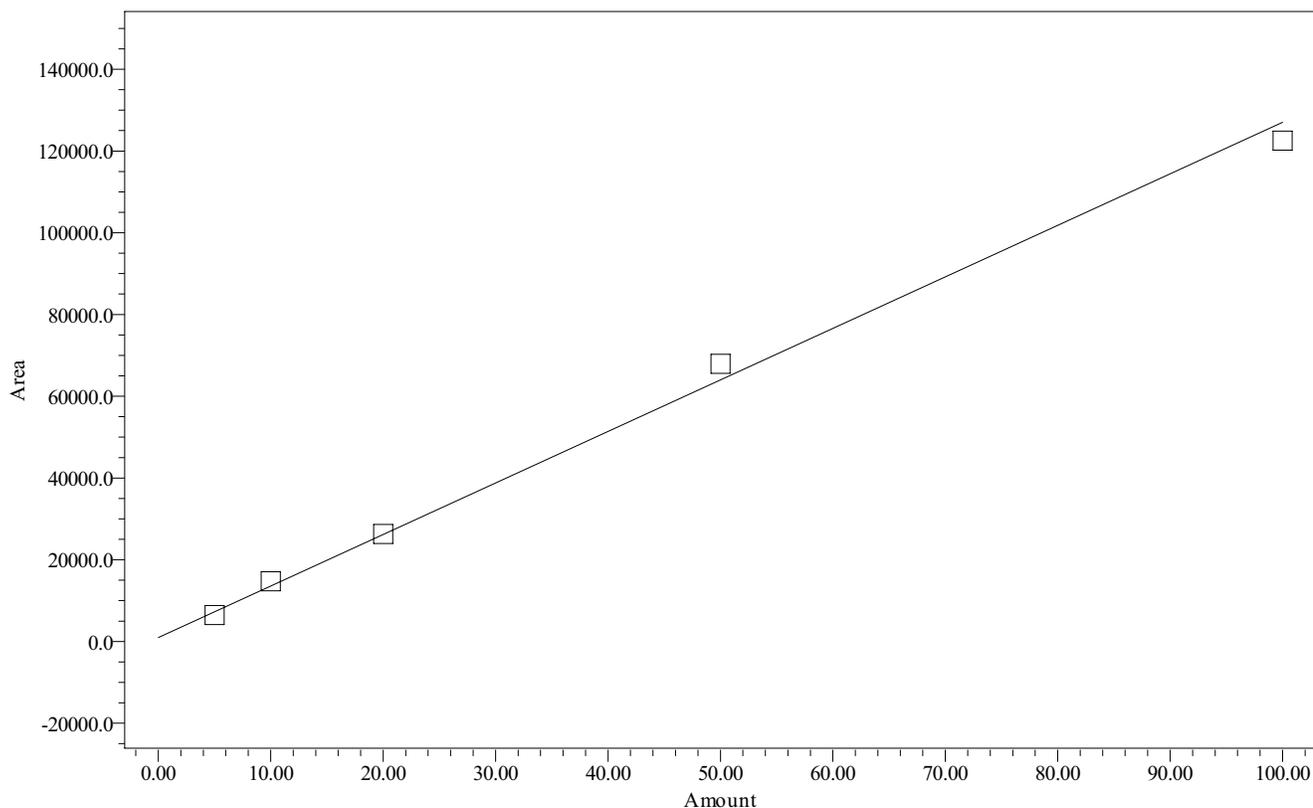
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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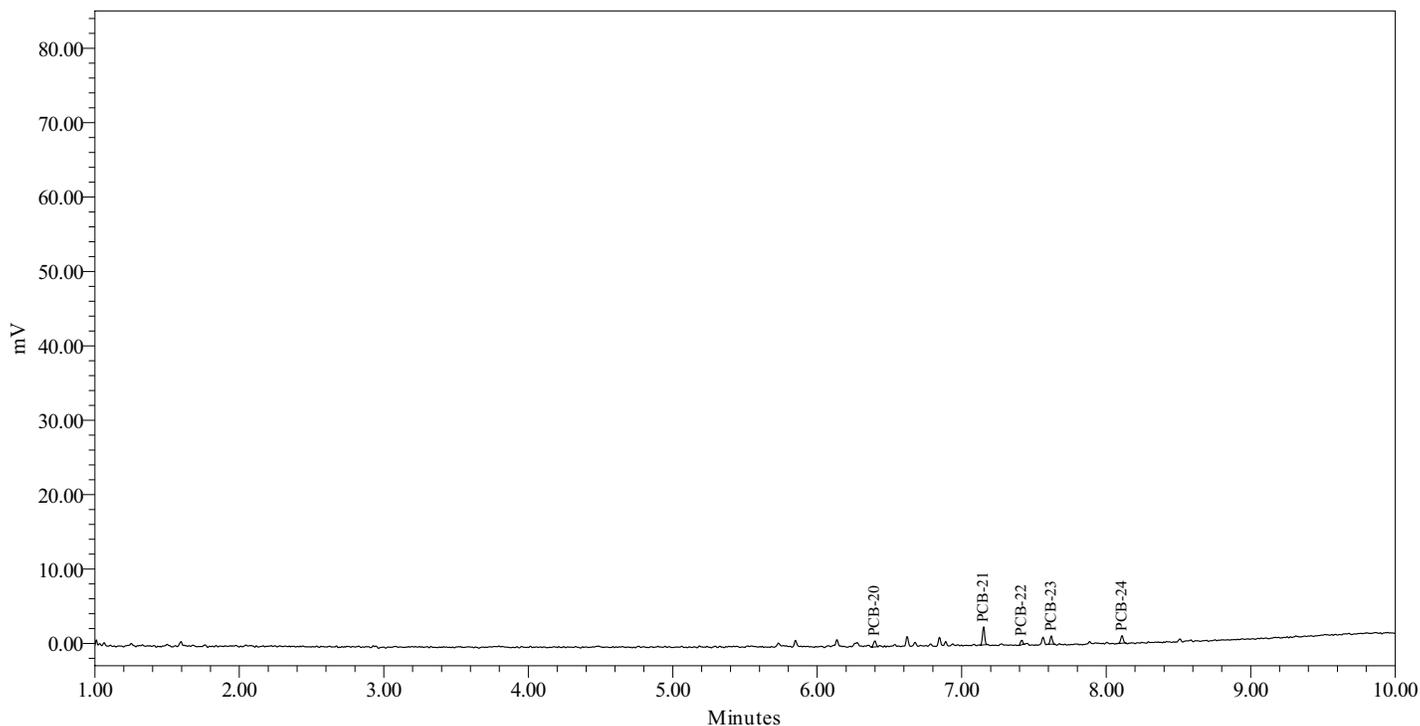
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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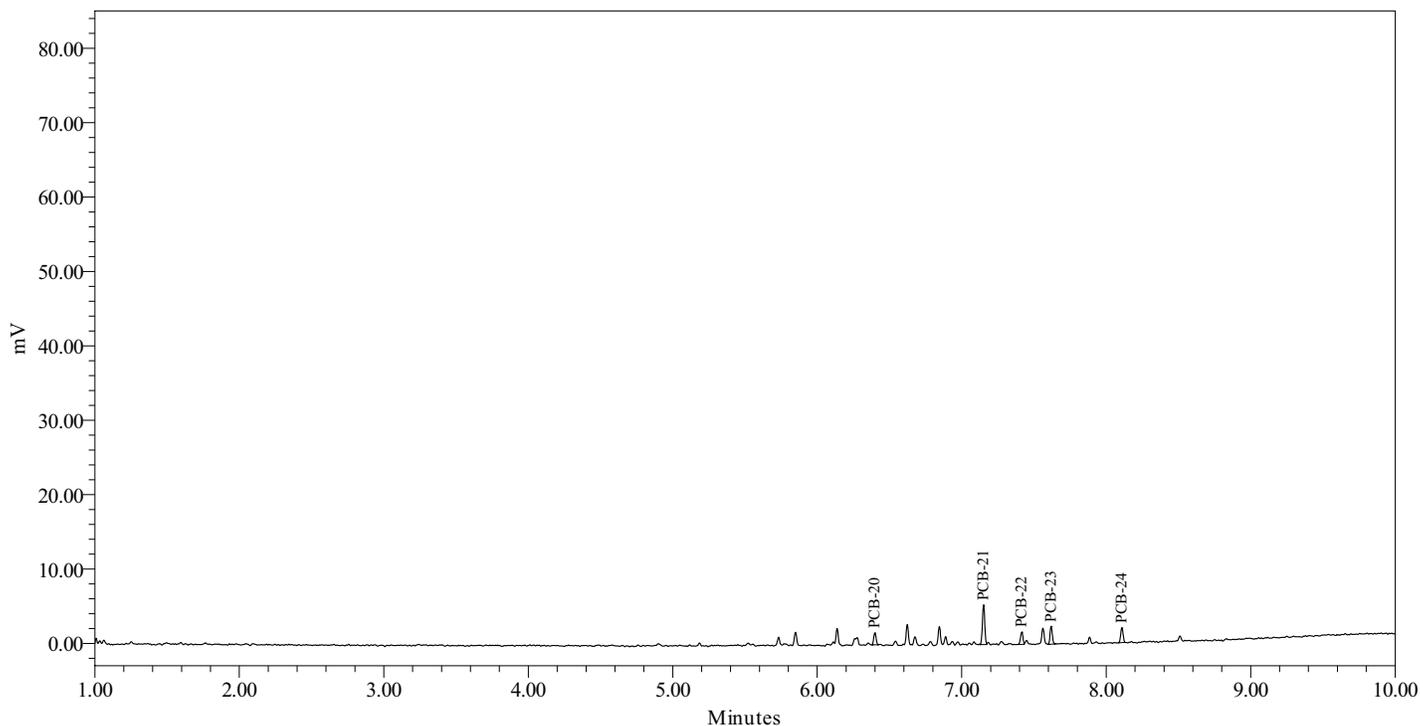
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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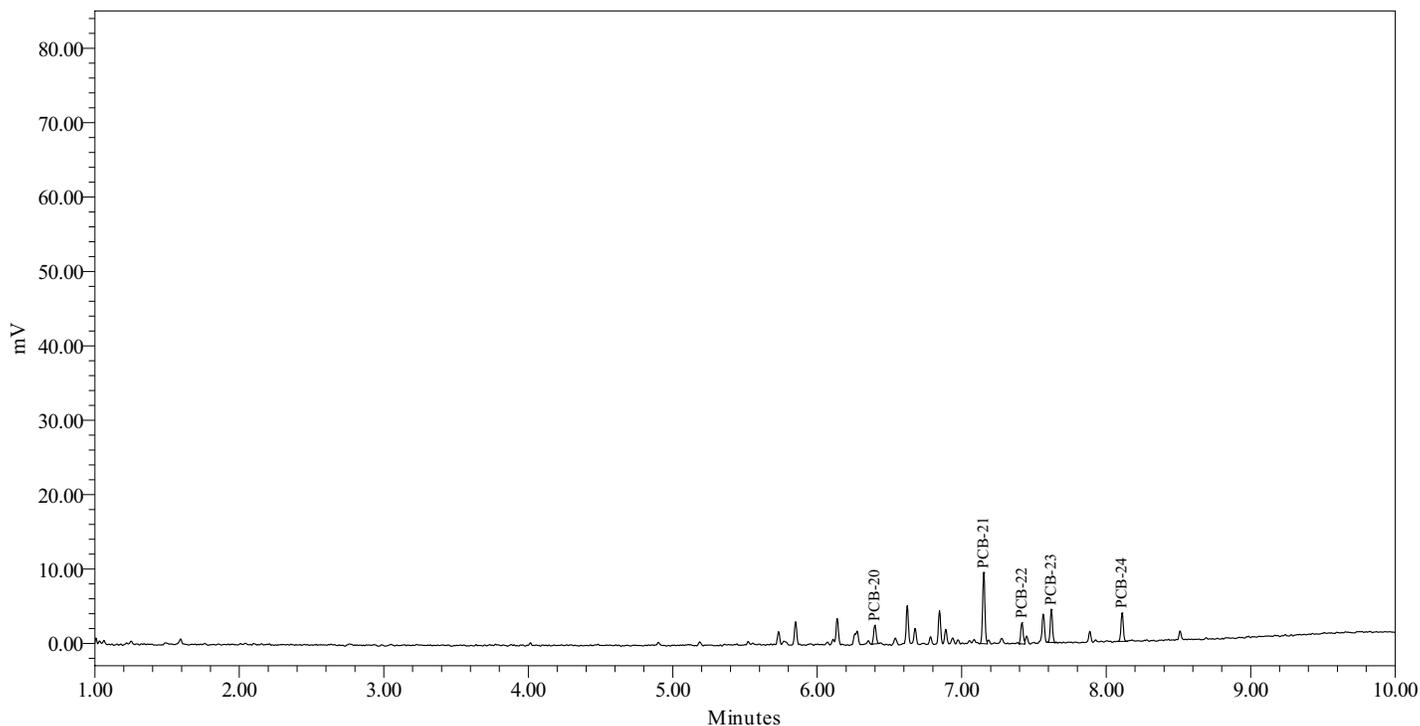
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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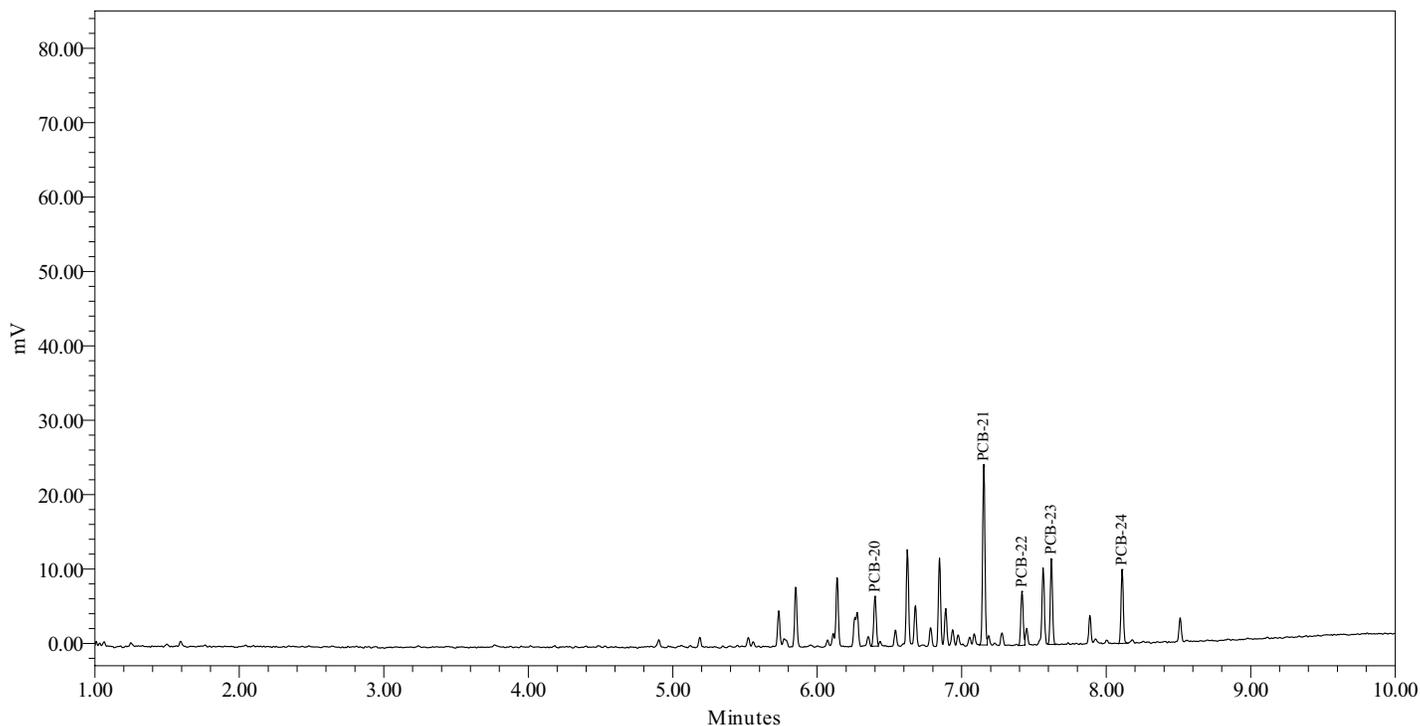
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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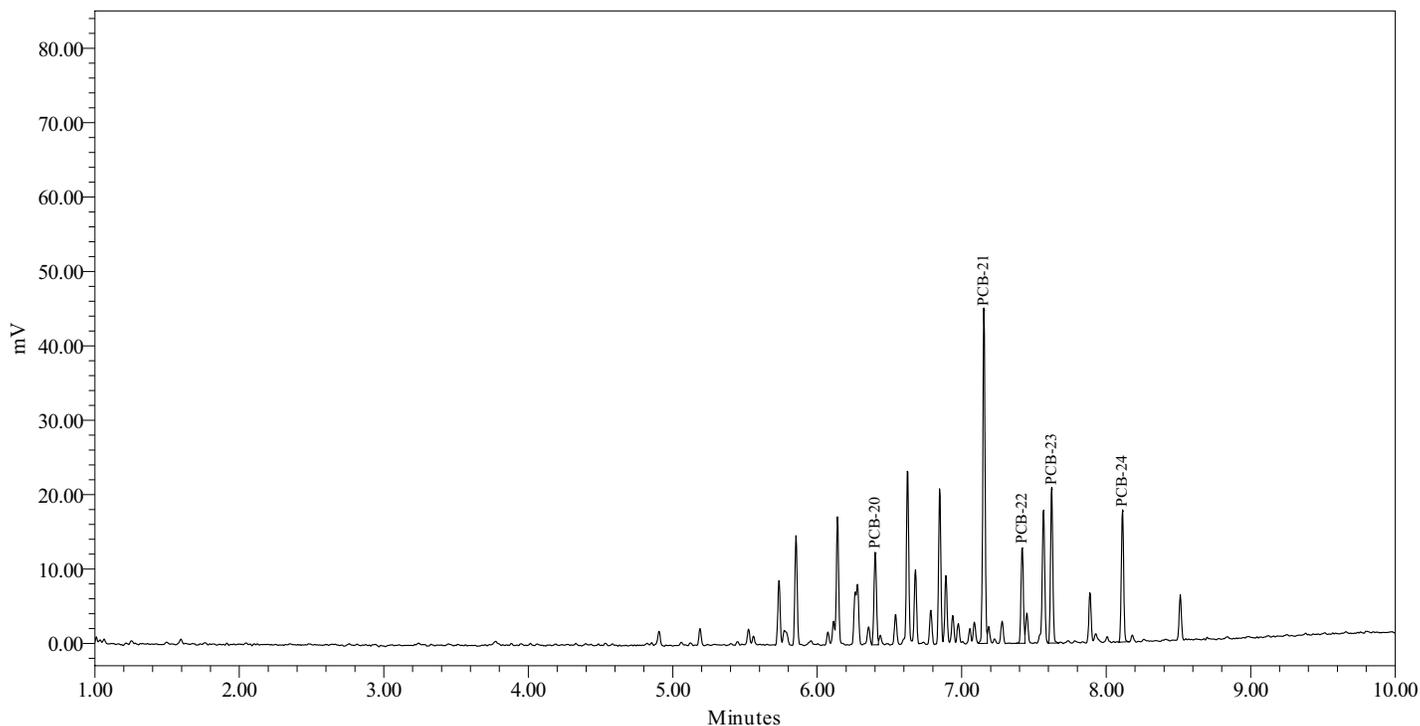
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

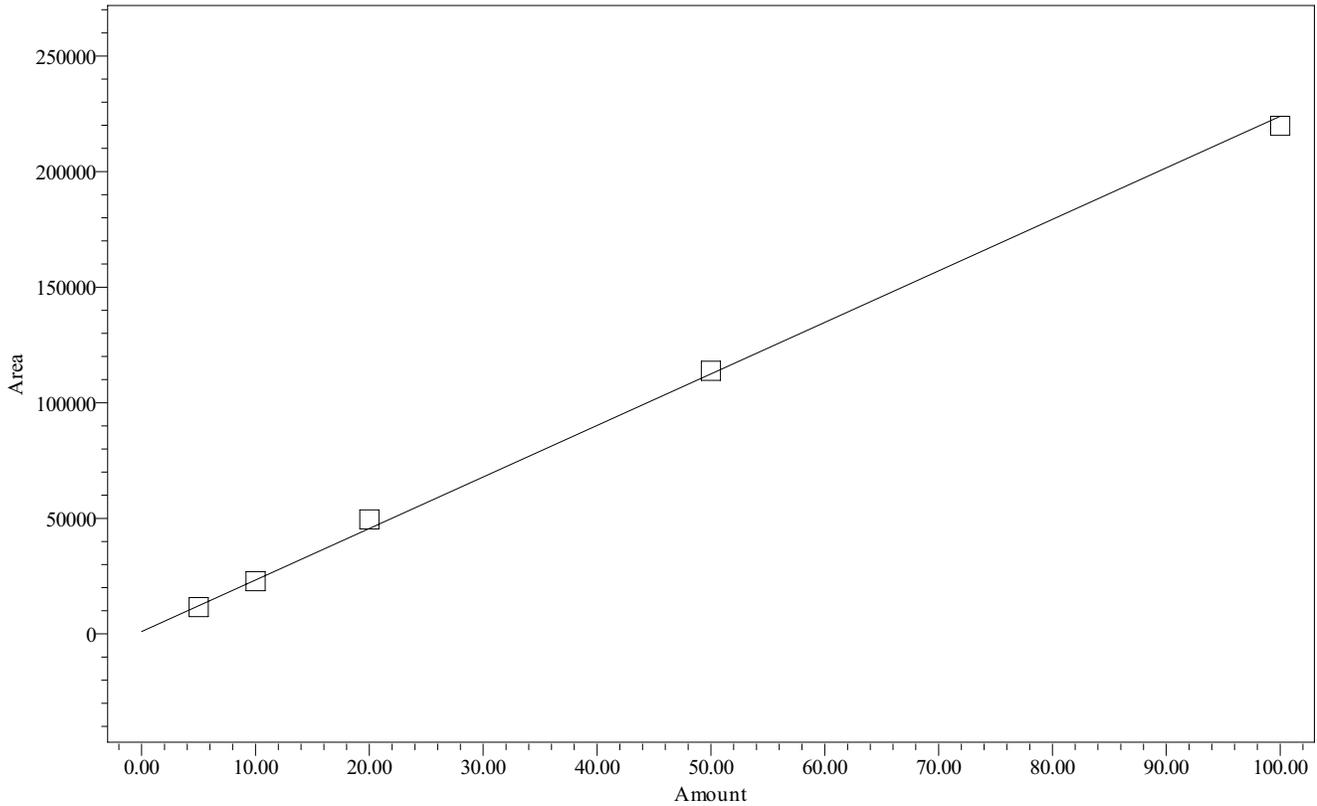
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



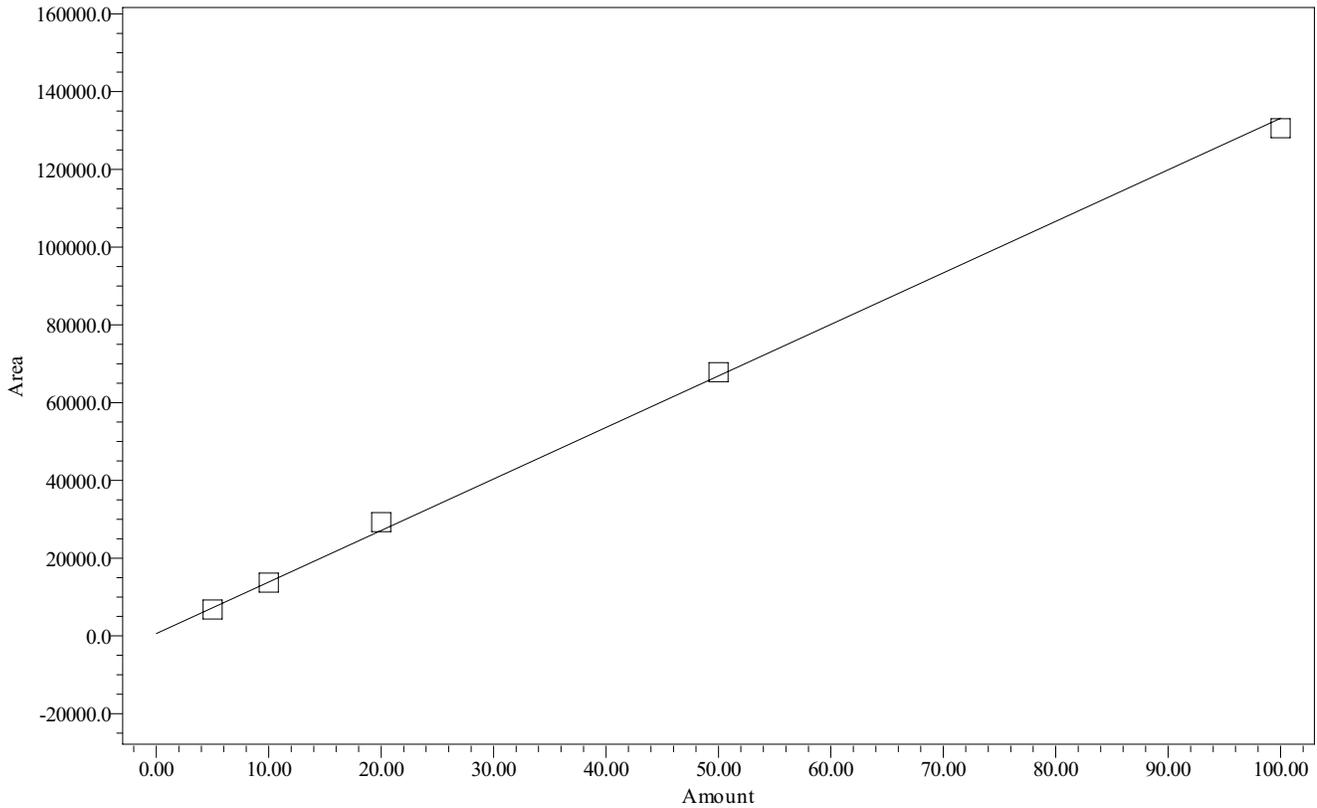
Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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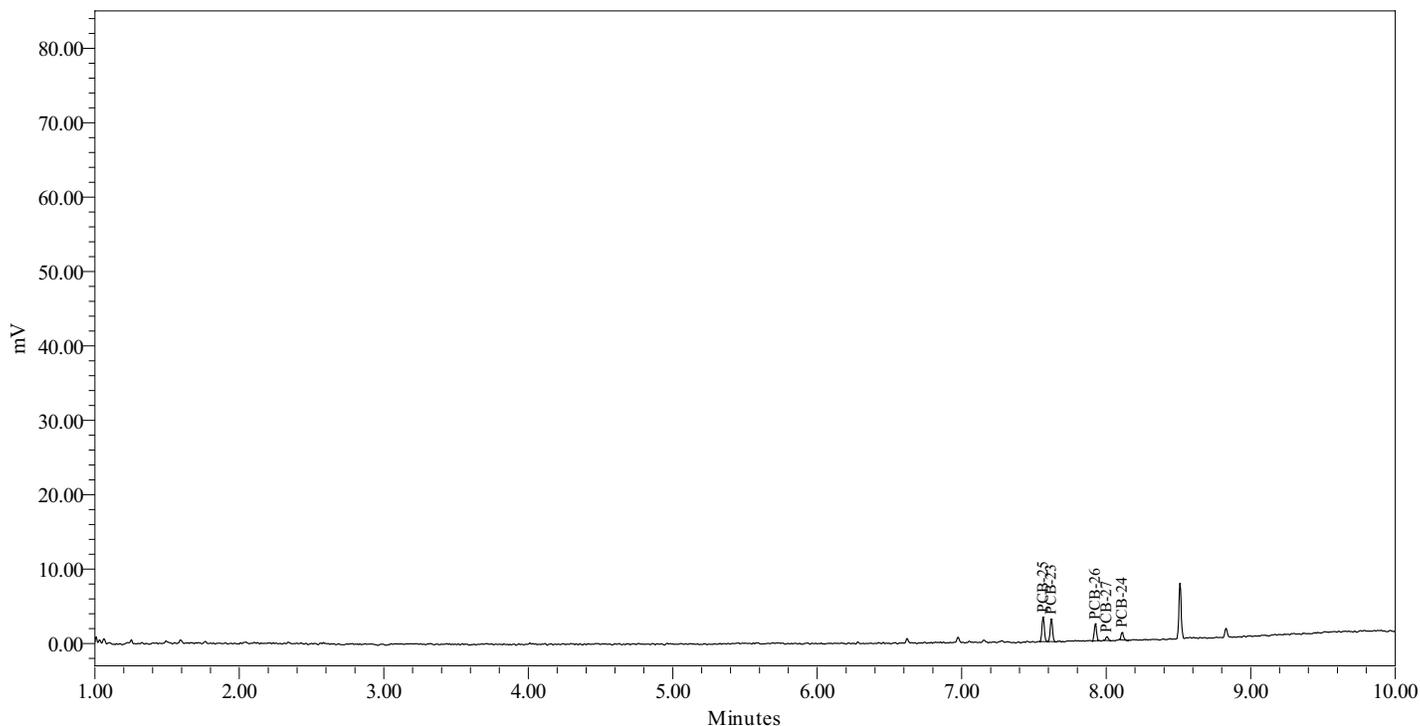
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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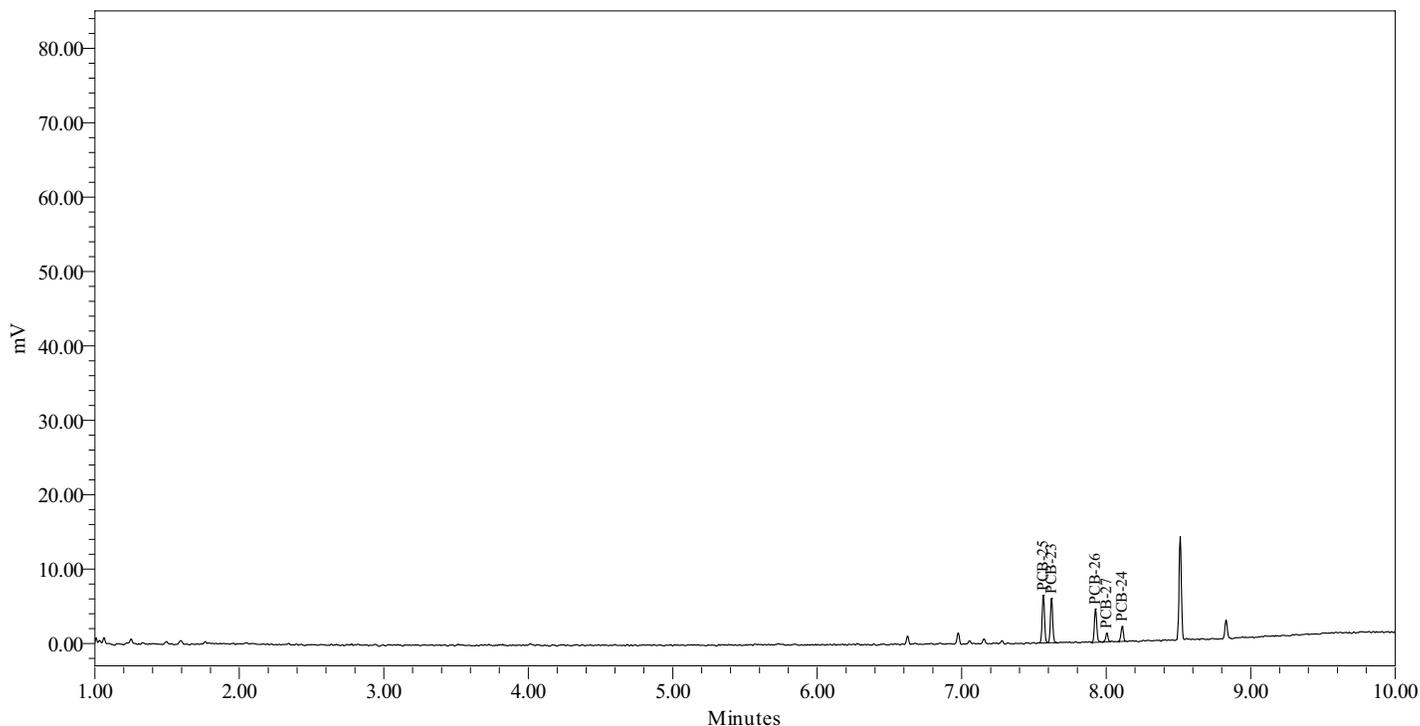
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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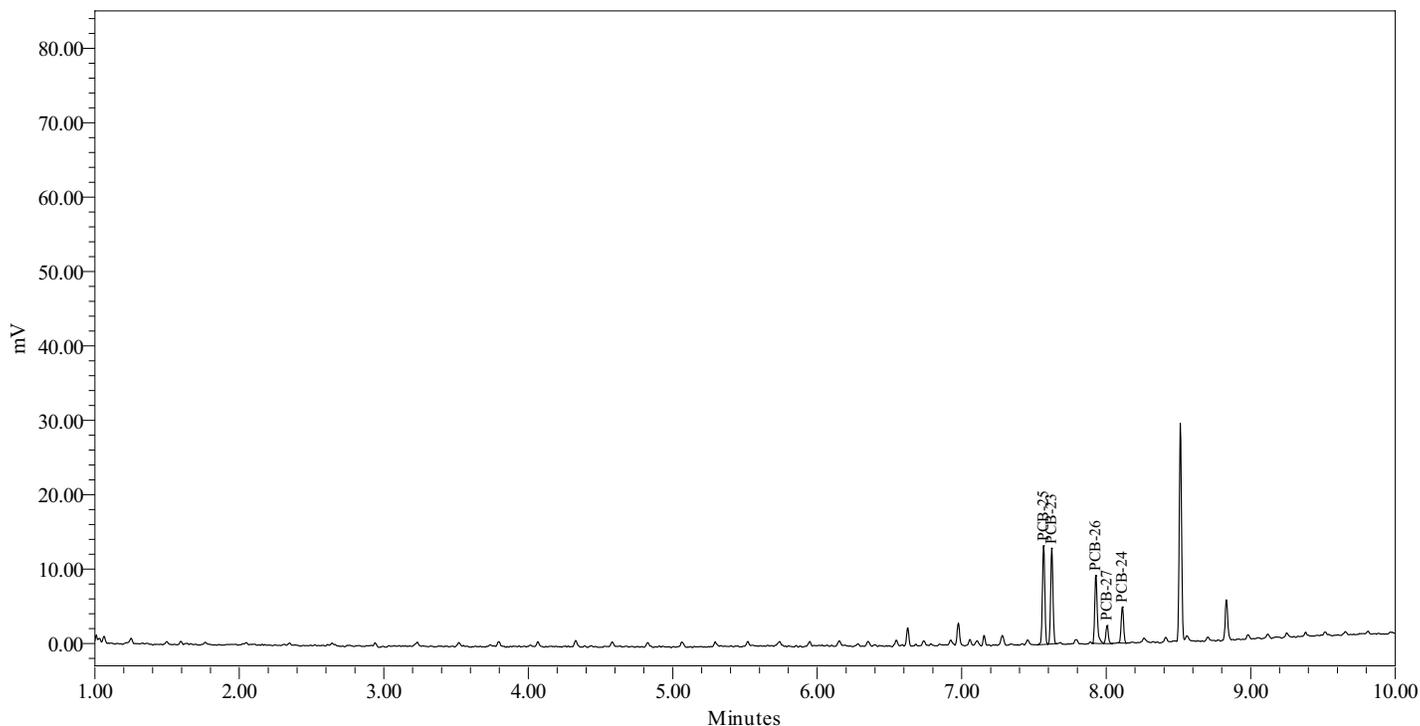
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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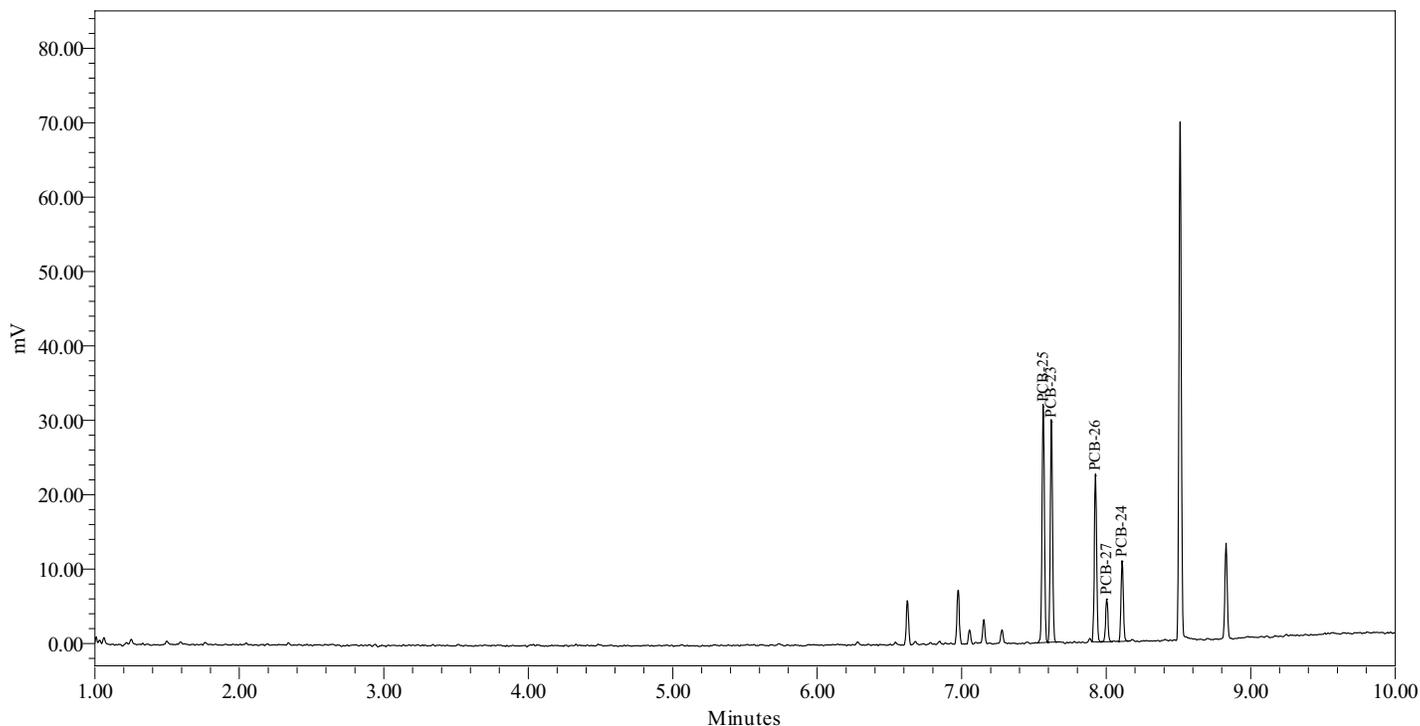
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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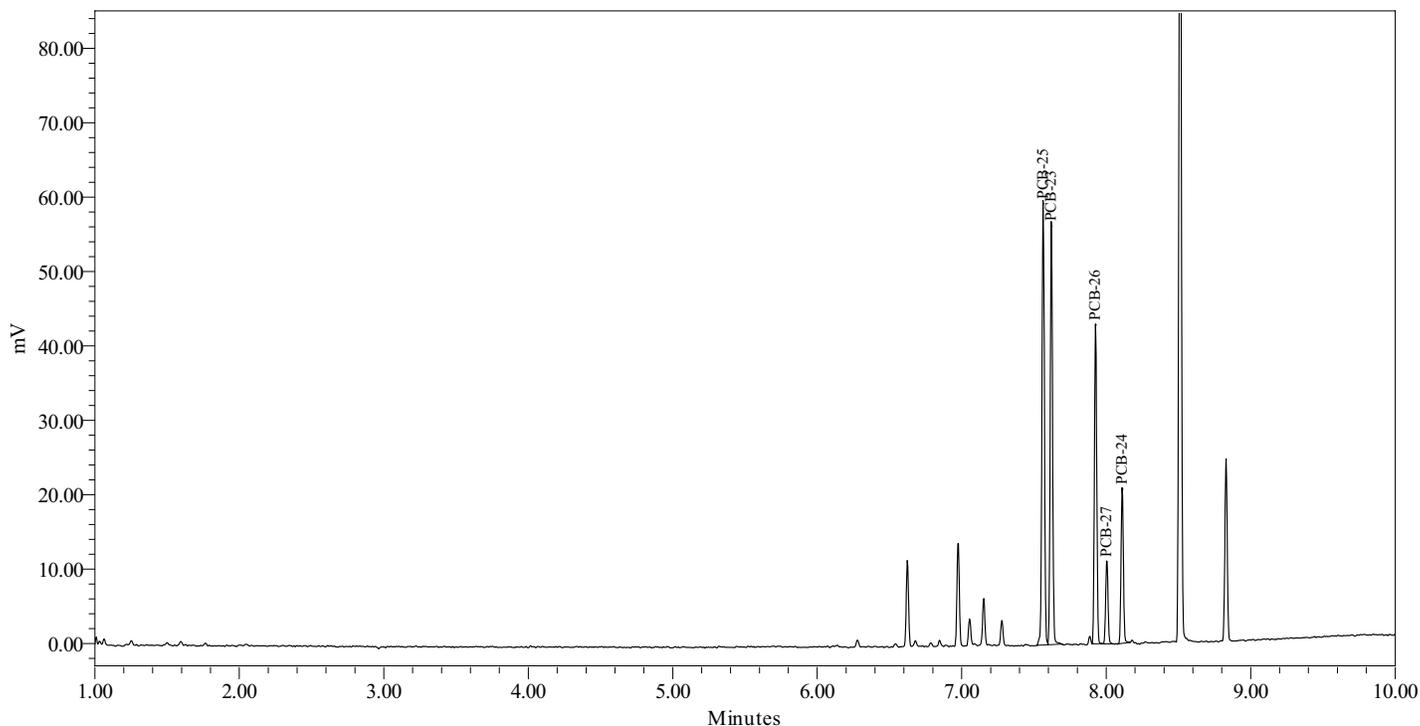
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SDG NO: 15060021

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1248 | GC28F-1632-48 | CS480603A     | CCV        | 50.1                | 50                 | 0.201              |   | 06/03/2015 22:32:23  |
| Aroclor 1254 | GC28F-1632-59 | CS540603A     | CCV        | 50.3                | 50                 | 0.571              |   | 06/04/2015 01:03:23  |
| Aroclor 1260 | GC28F-1632-68 | CS600603B     | CCV        | 53.3                | 50                 | 6.67               |   | 06/04/2015 03:07:18  |
| Aroclor 1016 | GC28F-1633-3  | CS160604A     | CCV        | 52.5                | 50                 | 5.02               |   | 06/04/2015 07:33:30  |
| Aroclor 1221 | GC28F-1633-6  | CS210604A     | CCV        | 48.6                | 50                 | -2.77              |   | 06/04/2015 10:51:57  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060021

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060021

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060021

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1633-3  | CS160604A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS160604A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS160604A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS160604A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS160604A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1633-6  | CS210604A     | CCV         | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210604A     | CCV         | 2    | 2.29 | 2.22      | 2.38 |
|              |               | CS210604A     | CCV         | 3    | 2.58 | 2.51      | 2.67 |
|              |               | CS210604A     | CCV         | 4    | 2.68 | 2.61      | 2.77 |
|              |               | CS210604A     | CCV         | 5    | 2.75 | 2.68      | 2.84 |
| Aroclor 1248 | GC28F-1632-48 | CS480603A     | CCV         | 1    | 4.22 | 4.15      | 4.31 |
|              |               | CS480603A     | CCV         | 2    | 4.52 | 4.45      | 4.61 |
|              |               | CS480603A     | CCV         | 3    | 4.80 | 4.74      | 4.90 |
|              |               | CS480603A     | CCV         | 4    | 4.87 | 4.81      | 4.97 |
|              |               | CS480603A     | CCV         | 5    | 5.04 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1632-59 | CS540603A     | CCV         | 1    | 5.17 | 5.11      | 5.27 |
|              |               | CS540603A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540603A     | CCV         | 3    | 5.54 | 5.48      | 5.64 |
|              |               | CS540603A     | CCV         | 4    | 6.09 | 6.03      | 6.19 |
|              |               | CS540603A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1632-68 | CS600603B     | CCV         | 1    | 6.39 | 6.32      | 6.48 |
|              |               | CS600603B     | CCV         | 2    | 7.14 | 7.07      | 7.23 |
|              |               | CS600603B     | CCV         | 3    | 7.40 | 7.34      | 7.50 |
|              |               | CS600603B     | CCV         | 4    | 7.61 | 7.54      | 7.70 |
|              |               | CS600603B     | CCV         | 5    | 8.10 | 8.03      | 8.19 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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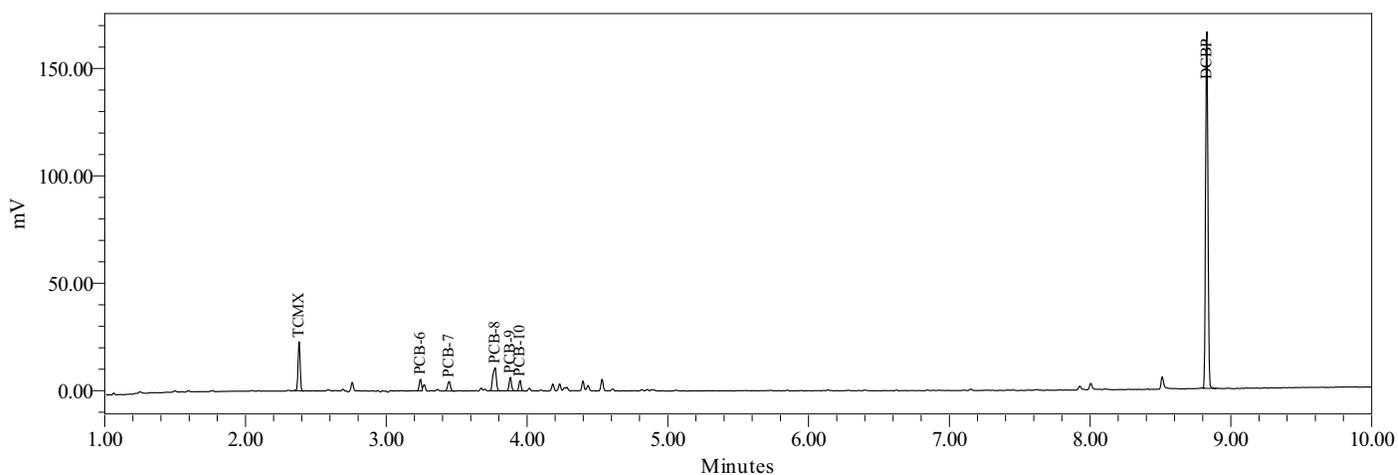
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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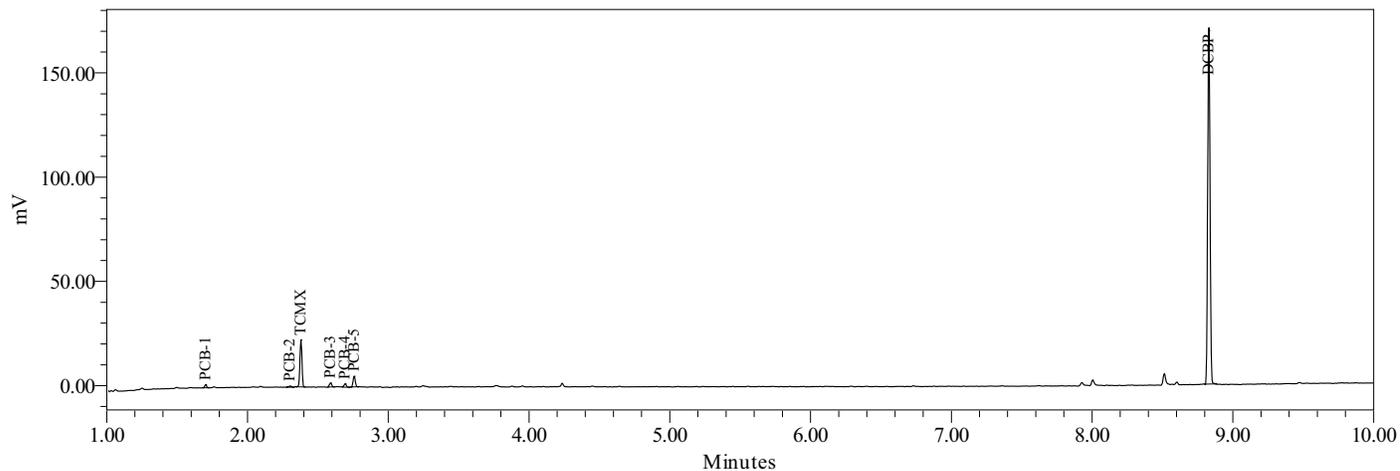
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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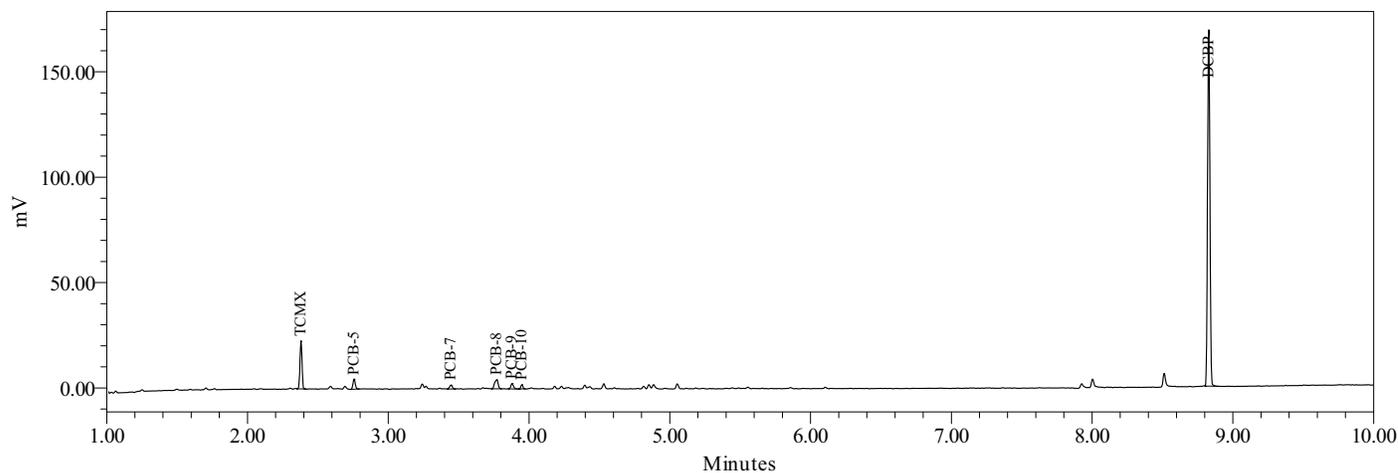
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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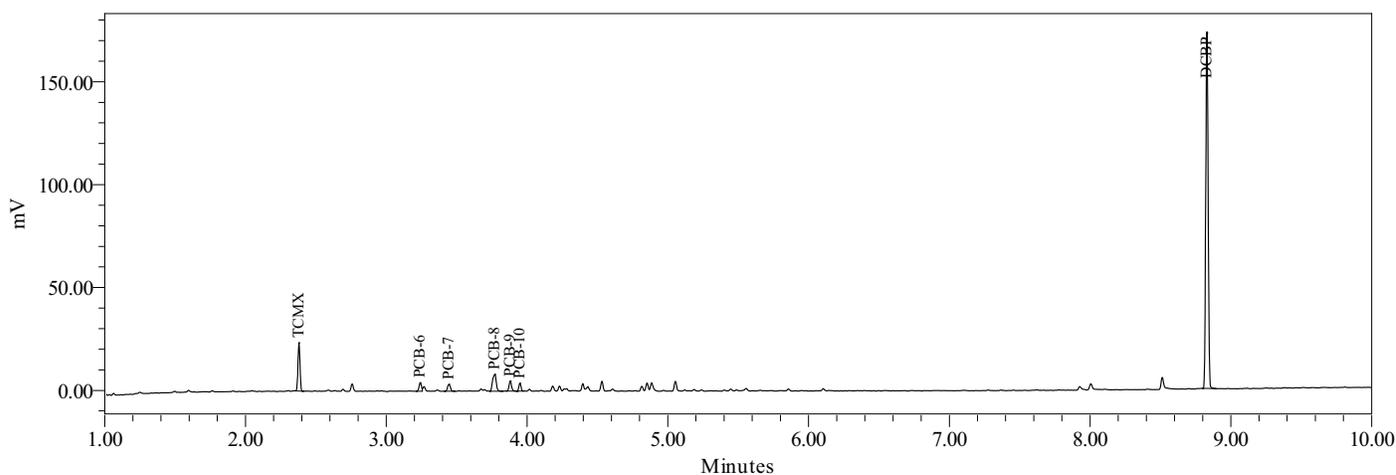
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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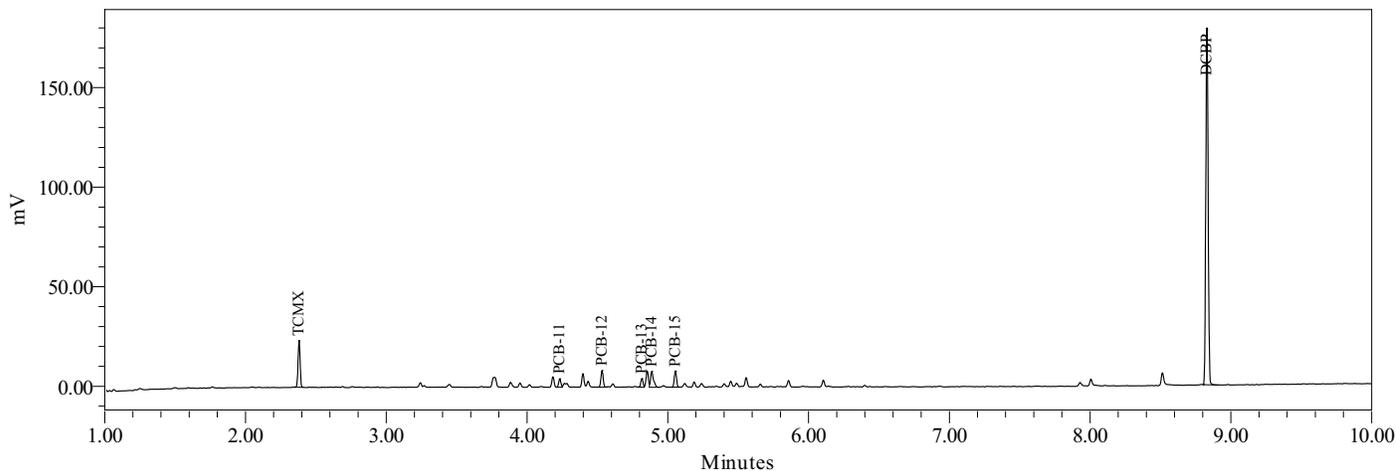
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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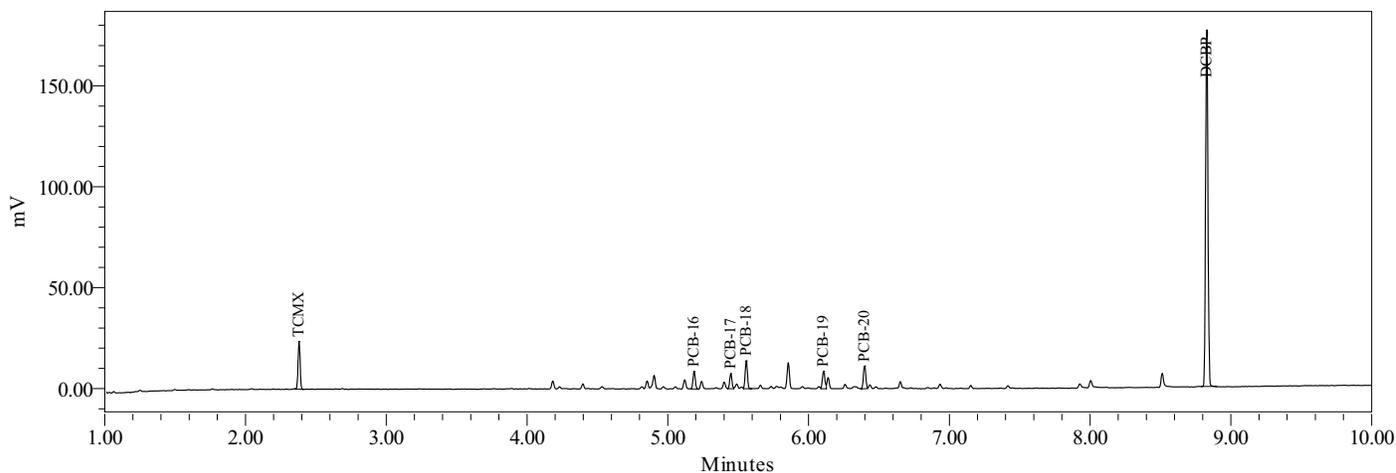
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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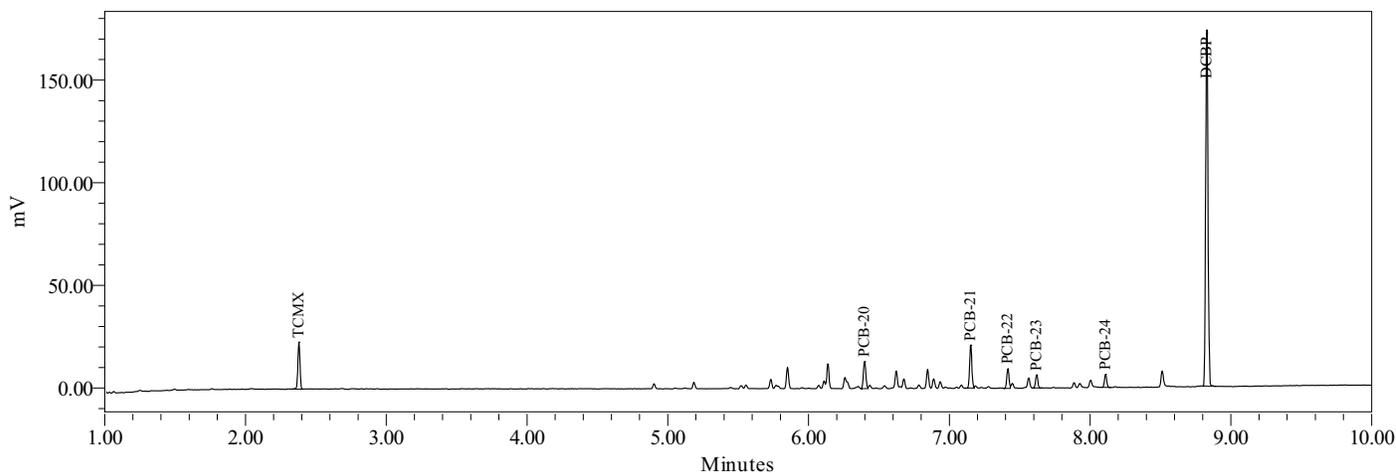
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|--------------------|--------------------------|-----------------|--------------------------|
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| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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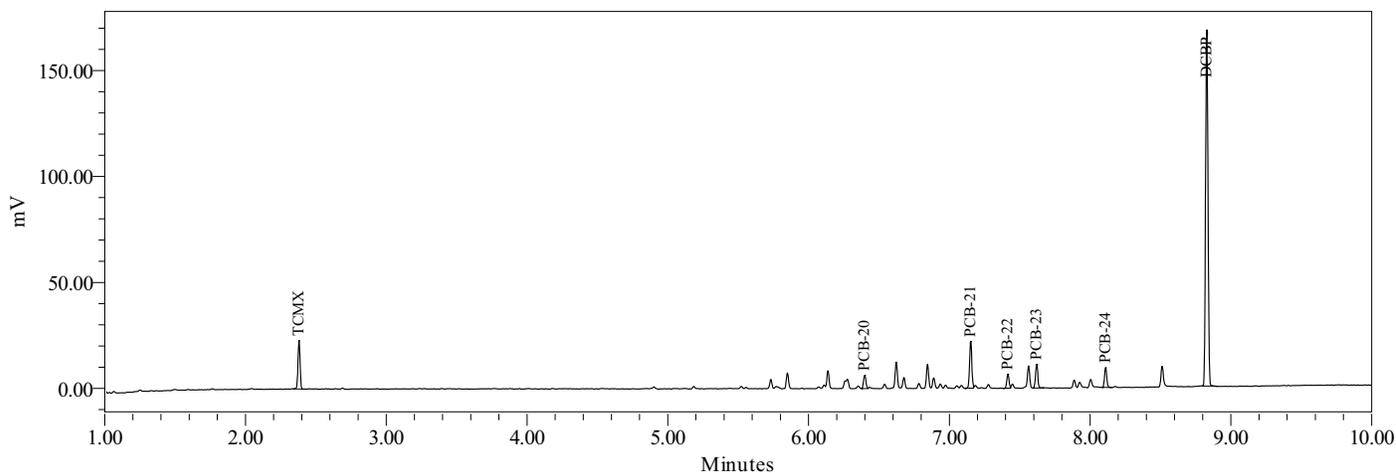
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|--------------------|--------------------------|-----------------|--------------------------|
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| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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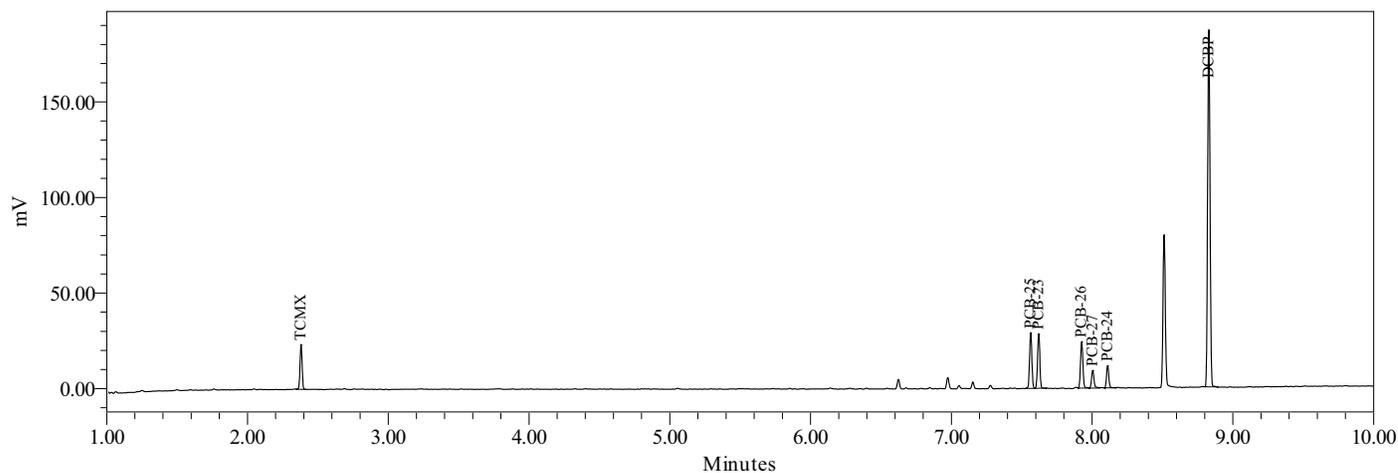
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



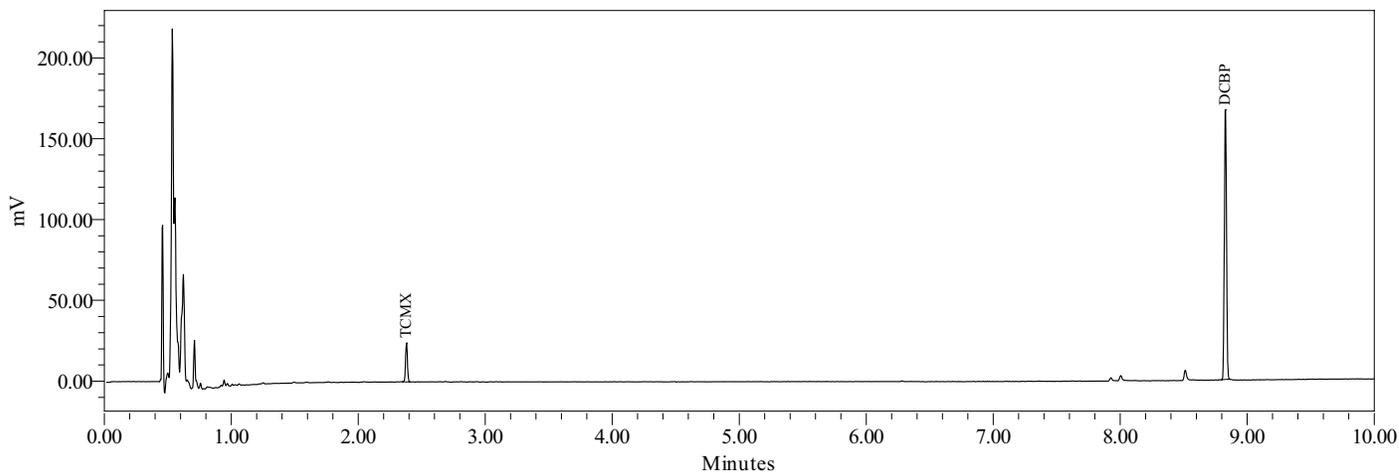
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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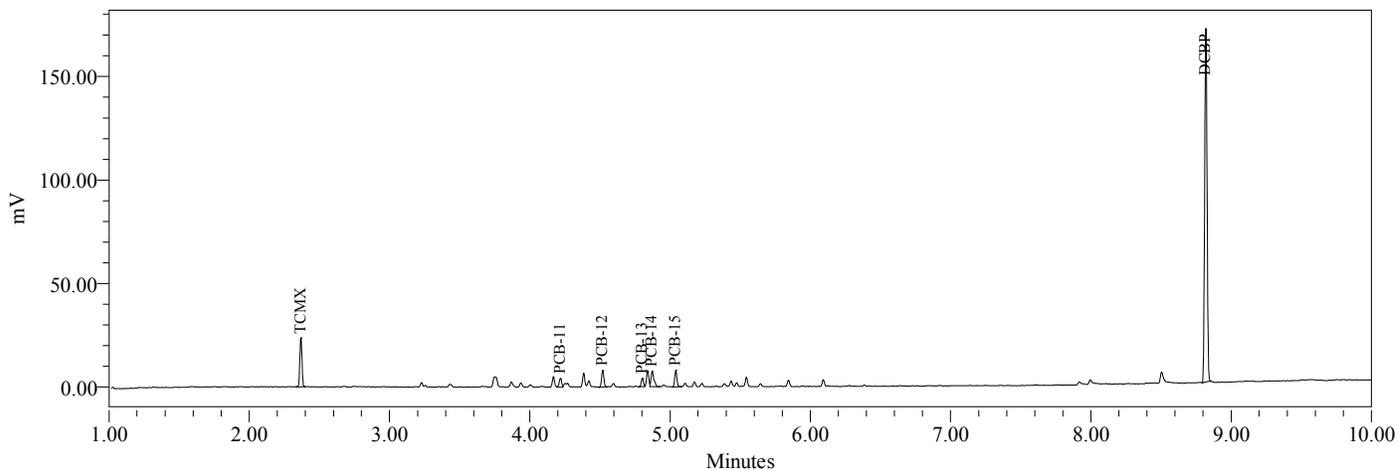
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480603A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/3/2015 10:32:23 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/3/2015 10:43:00 PM EDT |
| Sample Set Name:   | GC28F_060315f            | User Name:      | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 11:23:19 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1632-48 [A]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.369          | BB               | 25259         | 5.181                | 103.6       |             |
| 2 PCB-11  | 4.218          | VV               | 4675          |                      |             |             |
| 3 PCB-12  | 4.520          | BB               | 8929          |                      |             |             |
| 4 PCB-13  | 4.803          | BV               | 4503          |                      |             |             |
| 5 PCB-14  | 4.873          | VB               | 10575         |                      |             |             |
| 6 PCB-15  | 5.041          | BB               | 8725          |                      |             |             |
| 7 DCBP    | 8.820          | BB               | 198848        | 48.610               |             | 97.2        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1248       | 37407               | 50.100               | 0.20                | X      |      |
| 2 A1248-11/15 | 24007               | 49.936               | -0.13               |        |      |
| 3 A1248-14/15 | 18107               | 50.541               | 1.08                |        |      |



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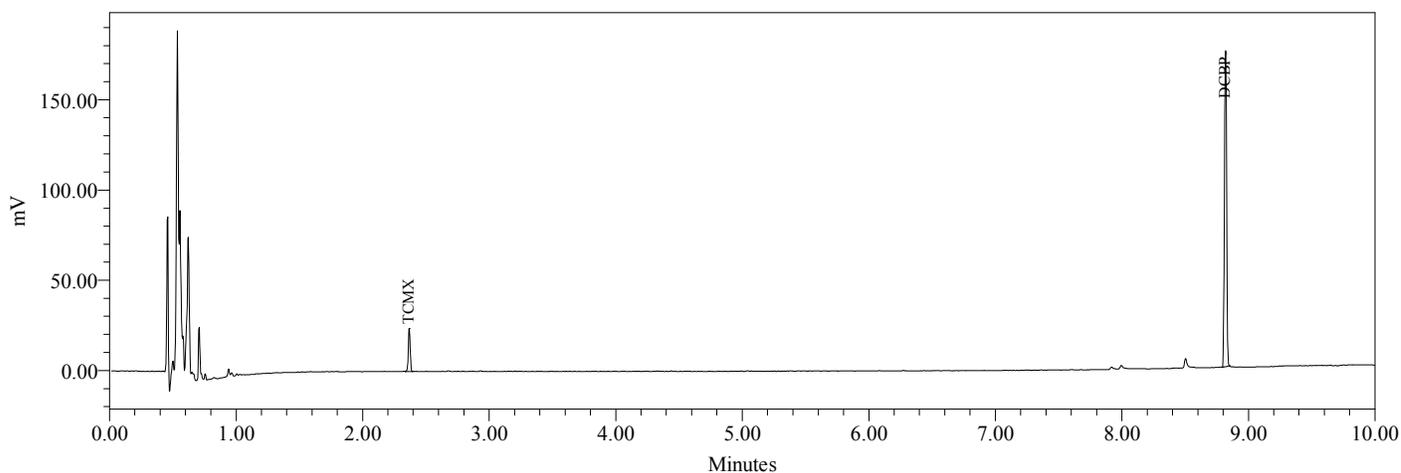
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Sample Name: 150603B14 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/3/2015 10:45:57 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/3/2015 10:55:17 PM EDT  
Sample Set Name: GC28F\_060315f User Name: Tim Holton (TimH)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 11:24:53 AM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1632-49 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.369          | VB               | 25226         | 5.174                | 103.47803 |           |
| 2 DCBP    | 8.819          | BB               | 209655        | 51.436               |           | 102.87292 |



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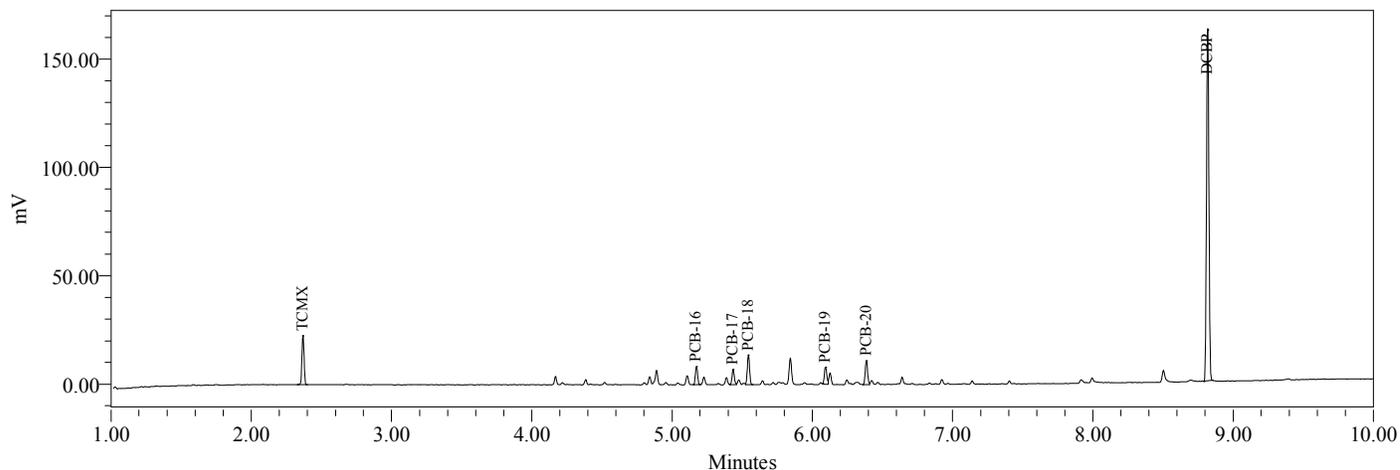
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS540603A               | Sample Amount:  | 1                       |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/4/2015 1:03:23 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 9:44:42 AM EDT |
| Sample Set Name:   | GC28F_060315g           | User Name:      | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:23:14 AM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-59 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.369          | bB               | 24024         | 4.922                | 98.4        |             |
| 2 PCB-16  | 5.174          | VV               | 9353          |                      |             |             |
| 3 PCB-17  | 5.435          | VV               | 8372          |                      |             |             |
| 4 PCB-18  | 5.544          | VB               | 14978         |                      |             |             |
| 5 PCB-19  | 6.095          | BV               | 9731          |                      |             |             |
| 6 PCB-20  | 6.386          | BV               | 13195         |                      |             |             |
| 7 DCBP    | 8.819          | BB               | 190693        | 46.476               |             | 93.0        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 55630               | 50.286               | 0.57                | X      |      |
| 2 A1254-17/18 | 32280               | 50.151               | 0.30                |        |      |
| 3 A1254-19/20 | 32703               | 50.483               | 0.97                |        |      |
| 4 A1254-20    | 42434               | 49.854               | -0.29               |        |      |
| 5 A1260       | 13195               | 10.704               | -78.59              |        |      |
| 6 A1260-23/24 | 13195               | 13.685               | -72.63              |        |      |
| 7 A1262       | 13195               | 9.695                | -80.61              |        |      |



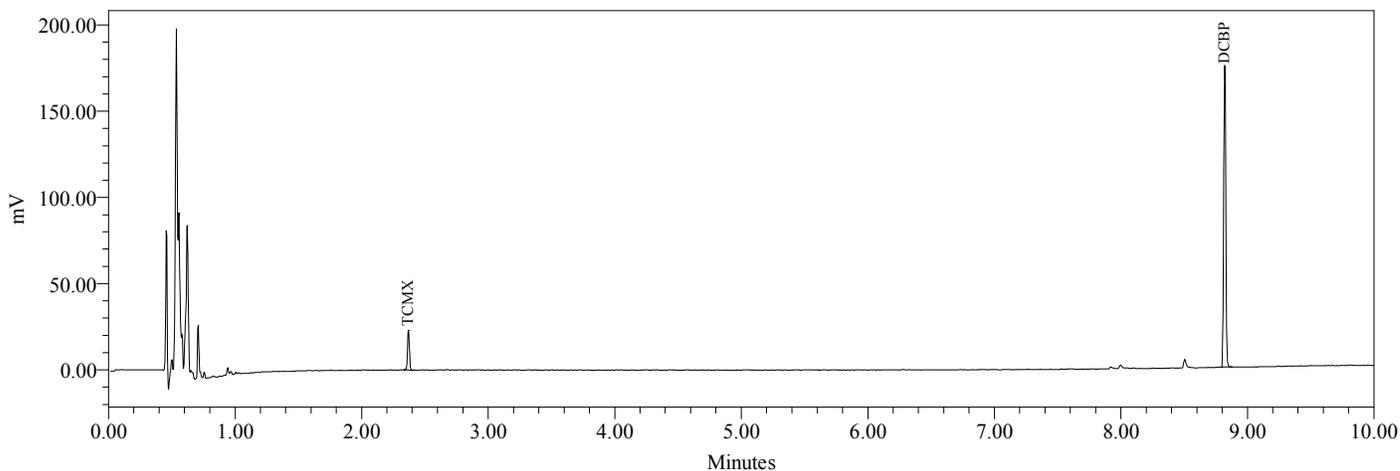
12

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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150603B15               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/4/2015 1:17:25 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 9:45:01 AM EDT |
| Sample Set Name:   | GC28F_060315g           | User Name:      | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:24:59 AM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1632-60 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX   | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|----------|-----------|
| 1 TCMX    | 2.370          | BB               | 24335         | 4.987                | 99.74647 |           |
| 2 DCBP    | 8.821          | Bb               | 204804        | 50.167               |          | 100.33493 |



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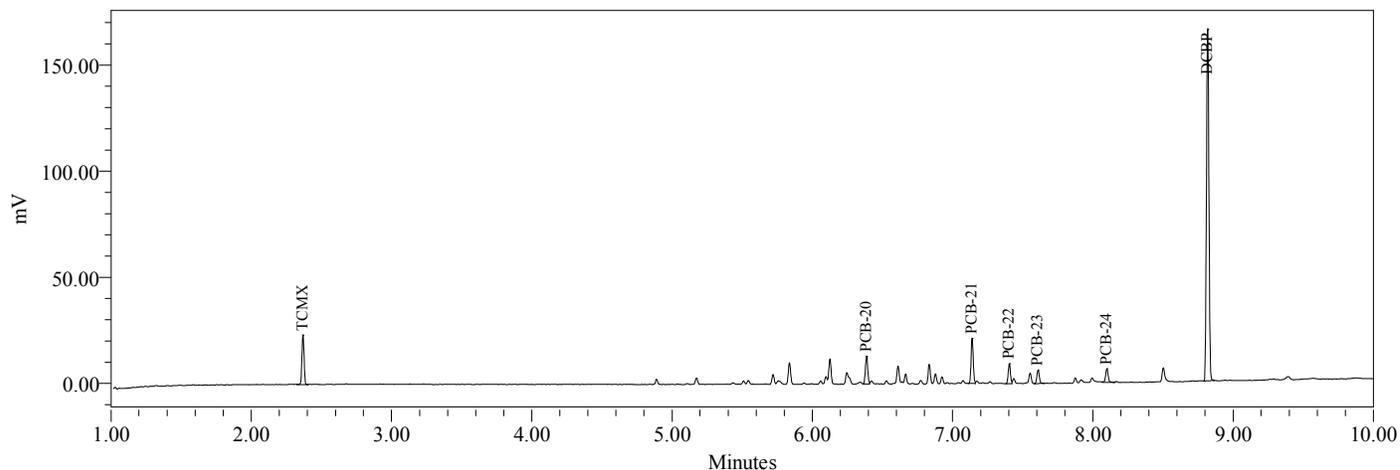
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS600603B               | Sample Amount:  | 1                       |
| Sample ID:         | A1260 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/4/2015 3:07:18 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 9:46:53 AM EDT |
| Sample Set Name:   | GC28F_060315g           | User Name:      | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:23:09 AM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-68 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.369          | VB               | 24665         | 5.056                | 101.1       |             |
| 2 PCB-20  | 6.387          | BV               | 15586         |                      |             |             |
| 3 PCB-21  | 7.140          | BV               | 23388         |                      |             |             |
| 4 PCB-22  | 7.405          | BV               | 10593         |                      |             |             |
| 5 PCB-23  | 7.609          | BV               | 7423          |                      |             |             |
| 6 PCB-24  | 8.099          | VV               | 8200          |                      |             |             |
| 7 DCBP    | 8.819          | Bb               | 198456        | 48.507               |             | 97.0        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 15586               | 14.284               | -71.43              |        |      |
| 2 A1254-17/18 | 15586               | 24.394               | -51.21              |        |      |
| 3 A1260       | 65190               | 53.336               | 6.67                | X      |      |
| 4 A1260-20    | 49604               | 56.946               | 13.89               |        |      |
| 5 A1260-23/24 | 49567               | 50.179               | 0.36                |        |      |
| 6 A1262       | 65190               | 50.946               | 1.89                |        |      |
| 7 A1268       | 15623               | 6.543                | -86.91              |        |      |



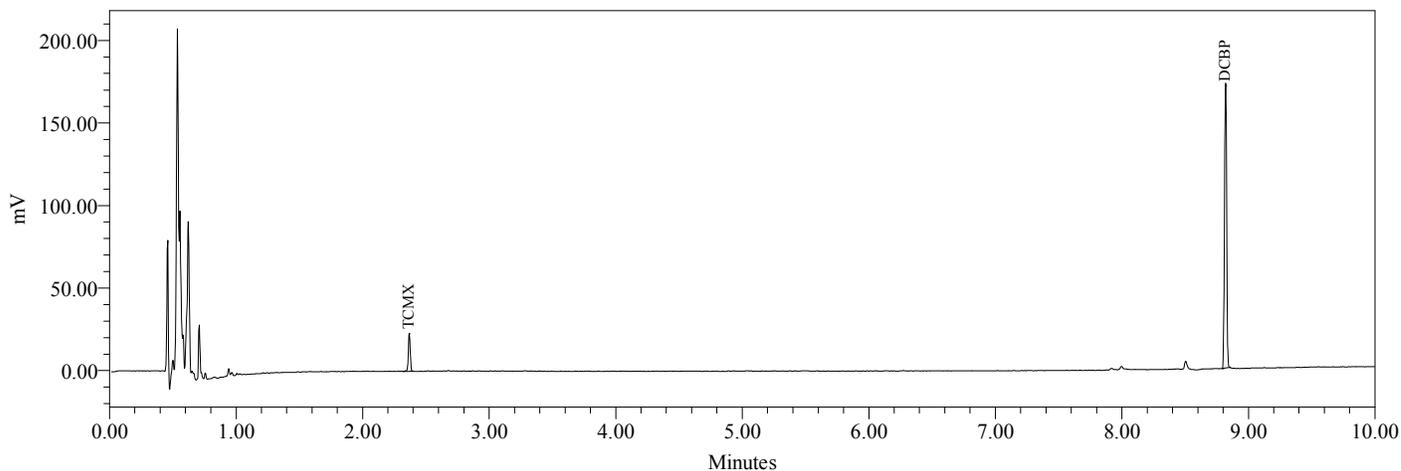
12

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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150603B16               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/4/2015 3:20:59 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 9:47:12 AM EDT |
| Sample Set Name:   | GC28F_060315g           | User Name:      | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:25:04 AM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1632-69 [A]       |

Peak Results

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX   | % DCBP   |
|-----------|----------------|------------------|---------------|----------------------|----------|----------|
| 1         | 2.369          | BB               | 24273         | 4.974                | 99.48511 |          |
| 2         | 8.819          | BB               | 203958        | 49.946               |          | 99.89255 |



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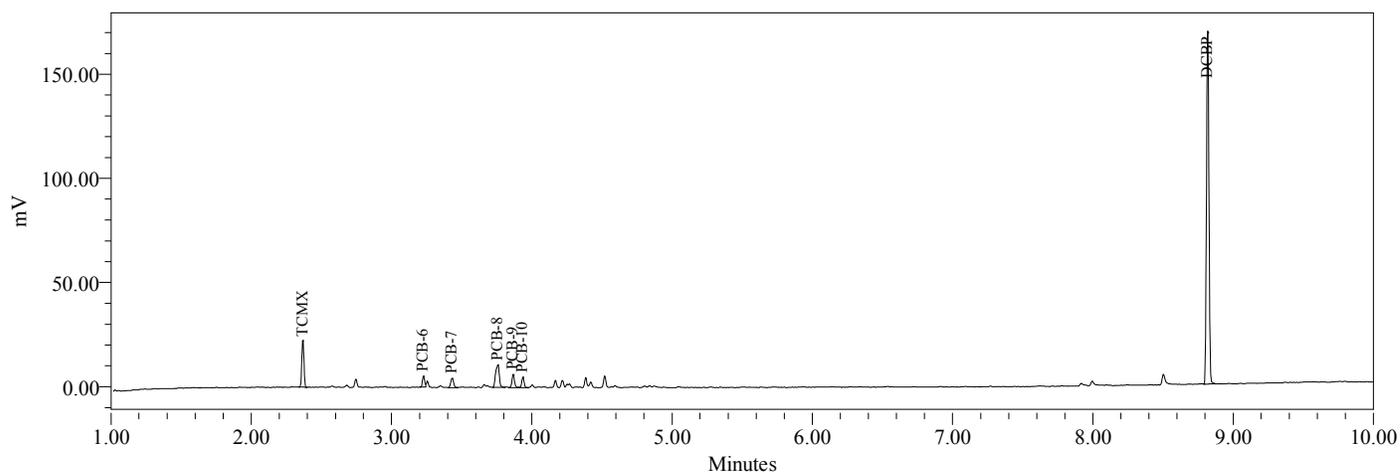
|                    |                         |                 |                          |
|--------------------|-------------------------|-----------------|--------------------------|
| Sample Name:       | CS160604A               | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 6/4/2015 7:33:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 10:22:23 AM EDT |
| Sample Set Name:   | GC28F_ccv_060415        | User Name:      | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:23:03 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-3 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.368          | BB               | 24003         | 4.918                | 98.4        |             |
| 2 PCB-6   | 3.228          | bV               | 5790          |                      |             |             |
| 3 PCB-7   | 3.432          | BB               | 6011          |                      |             |             |
| 4 PCB-8   | 3.758          | BV               | 19121         |                      |             |             |
| 5 PCB-9   | 3.868          | BV               | 7910          |                      |             |             |
| 6 PCB-10  | 3.936          | VB               | 5463          |                      |             |             |
| 7 DCBP    | 8.819          | Bb               | 203555        | 49.841               |             | 99.7        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 44295               | 52.508               | 5.02                | X      |      |
| 2 A1232     | 38505               | 88.266               | 76.53               |        |      |
| 3 A1232-8/9 | 11474               | 55.848               | 11.70               |        |      |
| 4 A1242     | 44295               | 67.190               | 34.38               |        |      |



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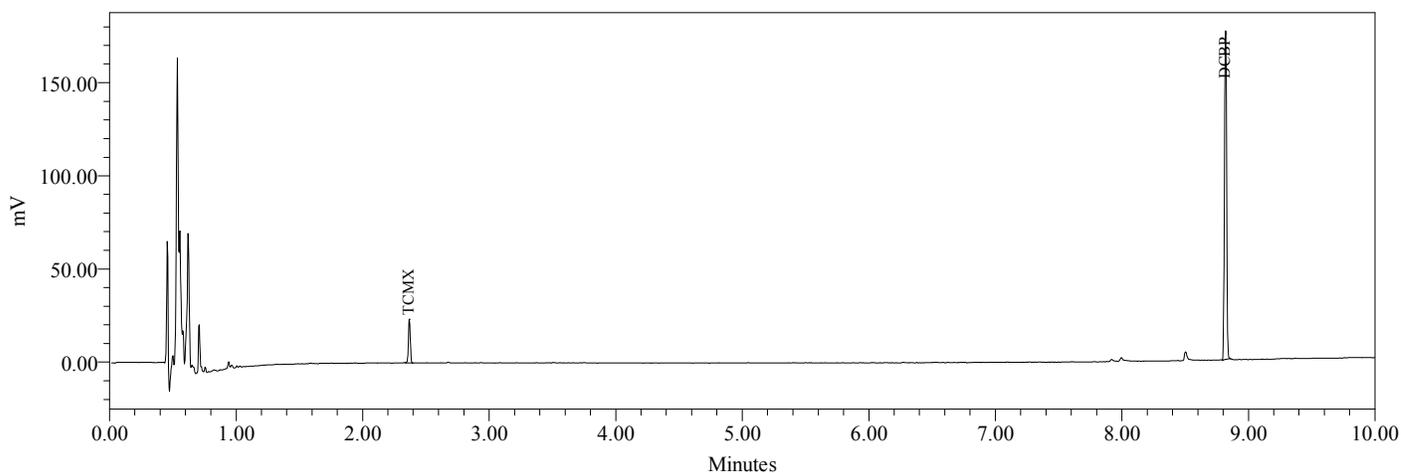
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Sample Name: 150604B03 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 7:47:26 AM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 10:22:37 AM EDT  
Sample Set Name: GC28F\_ccv\_060415 User Name: Tim Holton (TimH)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 11:25:09 AM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-4 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.370          | VB               | 24811         | 5.087                | 101.73846 |           |
| 2 DCBP    | 8.819          | BB               | 209535        | 51.405               |           | 102.81030 |



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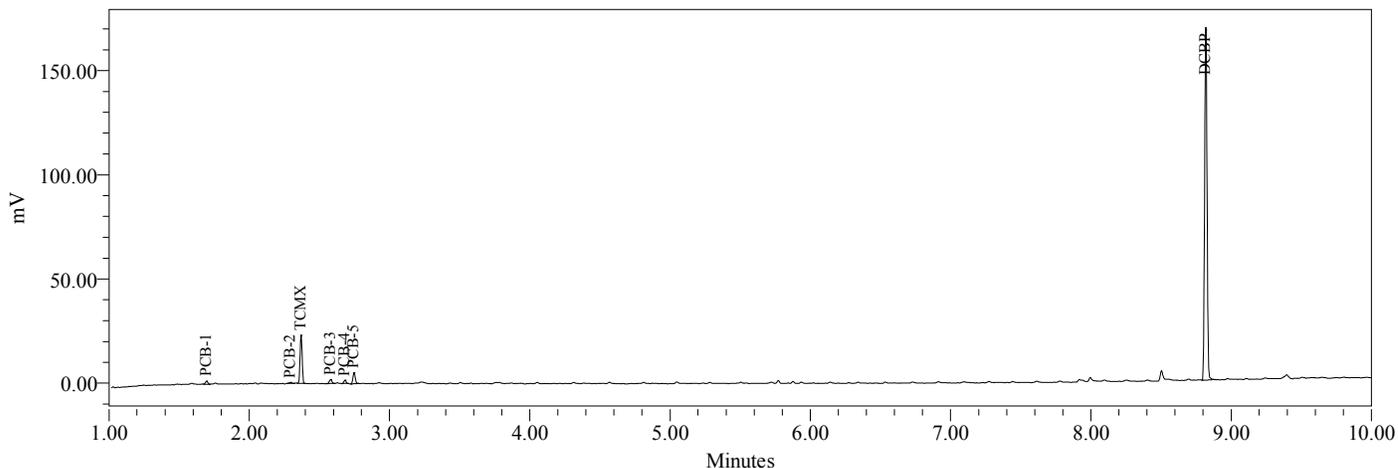
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS210604A                | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/4/2015 10:51:57 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/4/2015 11:15:30 AM EDT |
| Sample Set Name:   | GC28F_060415             | User Name:      | Tim Holton (TimH)        |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/4/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 11:22:58 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1633-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.697          | vB               | 1656          |                      |             |             |
| 2 PCB-2   | 2.295          | BV               | 733           |                      |             |             |
| 3 TCMX    | 2.370          | VB               | 24021         | 4.922                | 98.4        |             |
| 4 PCB-3   | 2.580          | Bb               | 2266          |                      |             |             |
| 5 PCB-4   | 2.683          | Bb               | 1618          |                      |             |             |
| 6 PCB-5   | 2.747          | BB               | 5946          |                      |             |             |
| 7 DCBP    | 8.820          | Bb               | 199551        | 48.793               |             | 97.6        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1221     | 12218               | 48.615               | -2.77               | X      |      |
| 2 A1221-2   | 11486               | 48.620               | -2.76               |        |      |
| 3 A1221-5   | 6272                | 50.129               | 0.26                |        |      |
| 4 A1232     | 5946                | 13.622               | -72.76              |        |      |
| 5 A1232-8/9 | 5946                | 28.712               | -42.58              |        |      |



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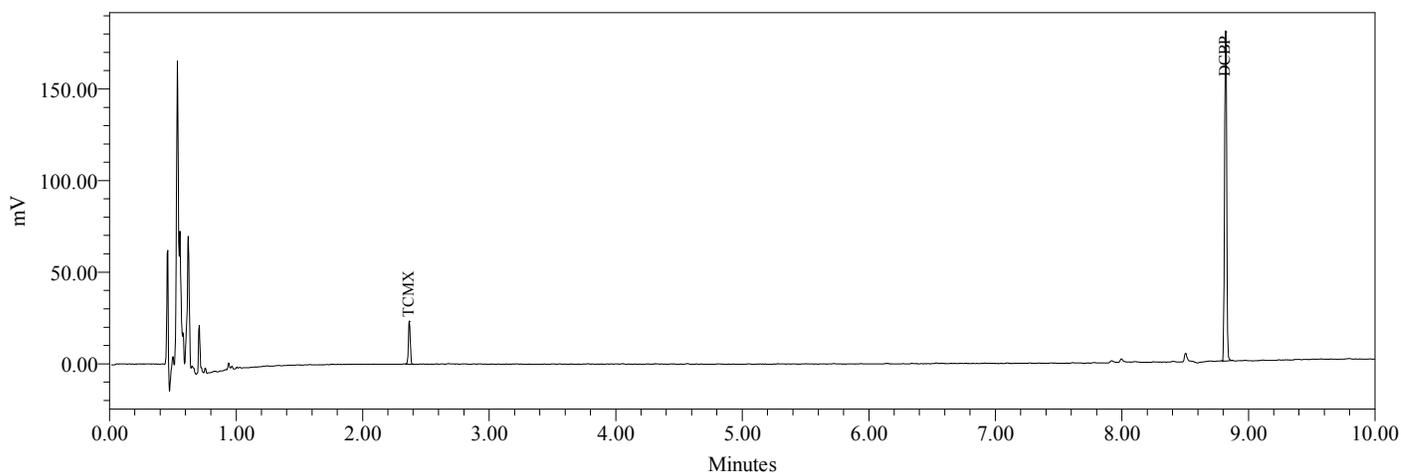
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Sample Name: 150604B04 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 11:05:34 AM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 11:16:31 AM EDT  
Sample Set Name: GC28F\_060415 User Name: Tim Holton (TimH)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 11:25:15 AM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-7 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.369          | vB               | 25006         | 5.128                | 102.55769 |           |
| 2 DCBP    | 8.820          | Bb               | 210296        | 51.604               |           | 103.20822 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060021</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-87</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11329B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-55</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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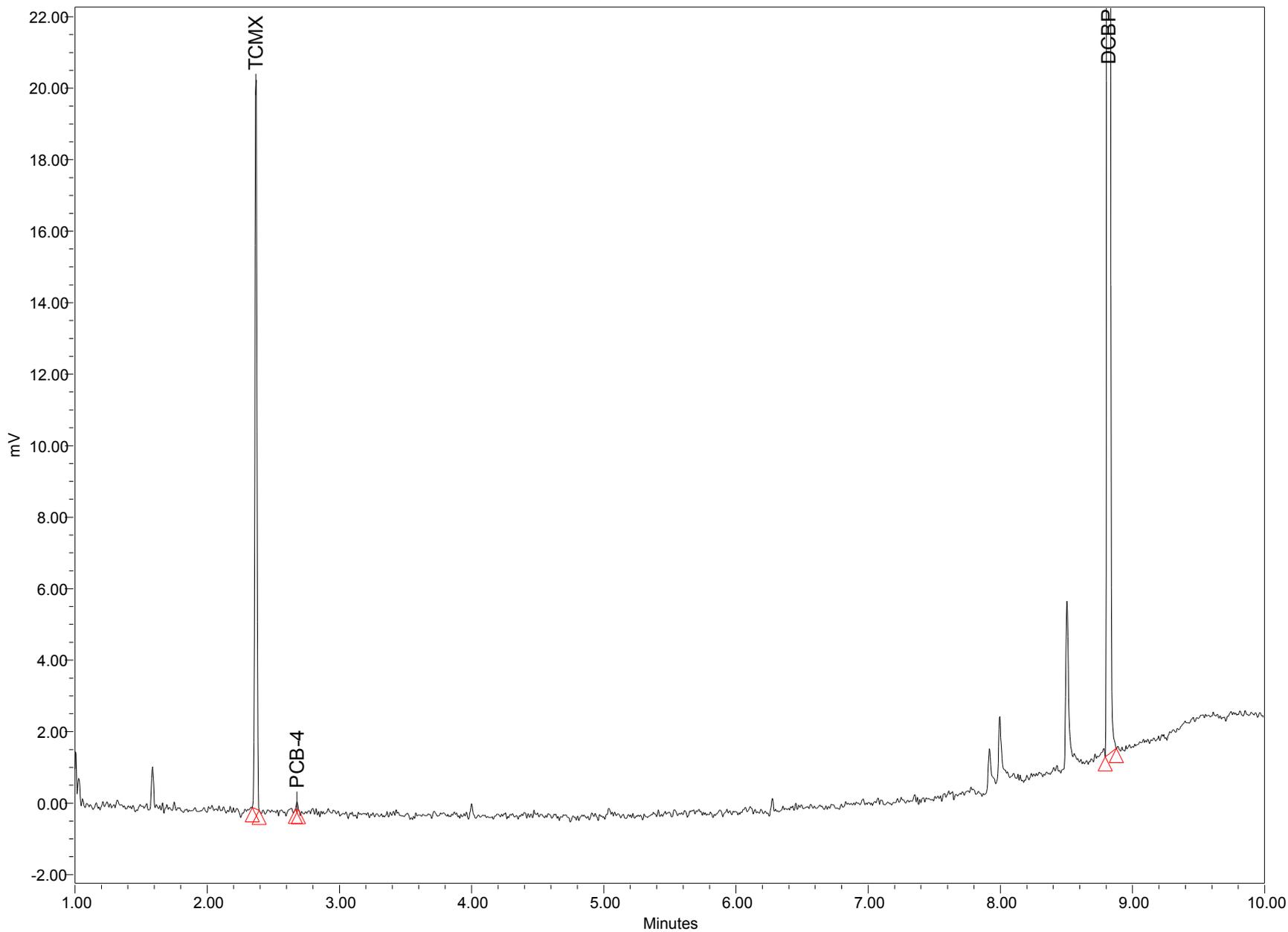
|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11329B                 | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | METHOD BLANK             | Dilution:           | 5                       |
| Date Acquired:     | 6/4/2015 12:08:31 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 3:40:13 PM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 3:44:35 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-55 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.369          | BB               | 21683         | 4.432                | 88.6        |             |
| 2 | PCB-4     | 2.679          | bb               | 157           |                      |             |             |
| 3 | DCBP      | 8.819          | Bb               | 205390        | 50.321               |             | 101         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 1 | A1221      | 157.1578            | 0.689               | 0.00344     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221-2    | 157.1578            | 1.275               | 0.00637     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1221-5    | 157.1578            | 1.666               | 0.00833     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11329B; Sample\_ID METHOD BLANK

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                          |
|-----------------------|---|------------------|--------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060021</u>          |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>LCS-87</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS11329L</u>          |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-56</u>     |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>                |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>        |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/04/2015</u>        |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                 |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.238                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

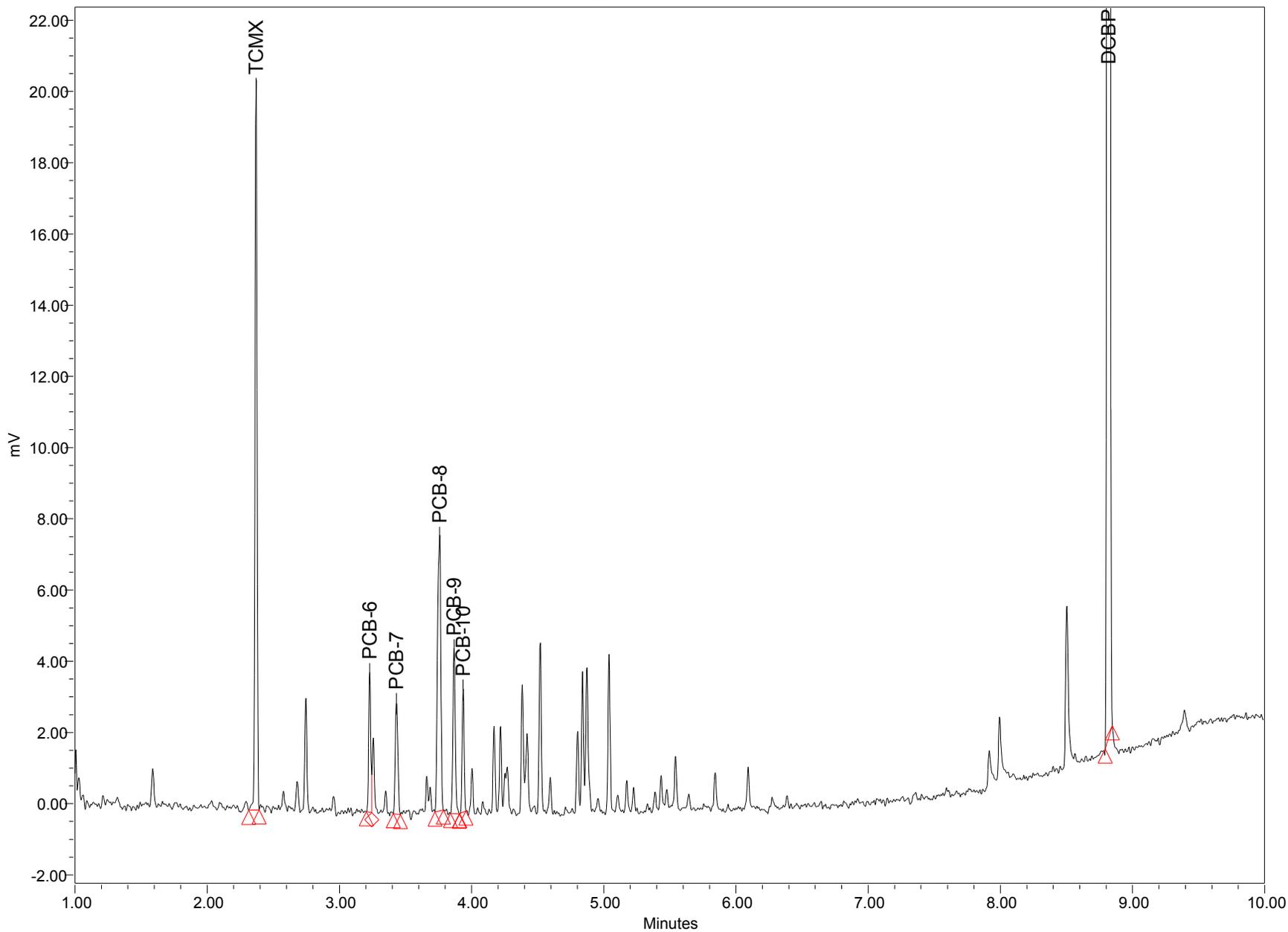
|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11329L                 | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | LAB CONTROL SPIKE        | Dilution:           | 5                       |
| Date Acquired:     | 6/4/2015 12:22:33 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 9:55:50 AM EDT |
| Sample Set Name:   | GC28F_060315g            | User Name:          | Tim Holton (TimH)       |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:26:26 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1632-56 [A]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.369          | BB               | 21709         | 4.437                | 88.7        |             |
| 2 | PCB-6     | 3.229          | BV               | 4257          |                      |             |             |
| 3 | PCB-7     | 3.432          | BB               | 4299          |                      |             |             |
| 4 | PCB-8     | 3.758          | BB               | 13581         |                      |             |             |
| 5 | PCB-9     | 3.867          | BB               | 5701          |                      |             |             |
| 6 | PCB-10    | 3.936          | BB               | 3592          |                      |             |             |
| 7 | DCBP      | 8.818          | BB               | 201585        | 49.326               |             | 98.7        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 31430.8657          | 37.206               | 0.18603     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27173.5303          | 62.288               | 0.31144     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 7890.9434           | 38.259               | 0.19129     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 31430.8657          | 47.625               | 0.23812     | 0.0250   | 0.00873  | X      |      |



SampleName AS11329L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



## Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 05/30/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150601110550 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-01 (AS11329)       | <b>Percent Solid:</b> N/A                |

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1632-57 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 00:36 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30922             | EPA 3535A                           | 06/03/2015 09:41 | ER      | 1000 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-57 |
| Aroclor 1221          | 11104-28-2 | <b>0.0364</b> | 0.0250 | 1.00            | PB    | GC28F-1632-57 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-57 |
| Aroclor 1242          | 53469-21-9 | <b>0.0141</b> | 0.0250 | 1.00            | AD,J  | GC28F-1632-57 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-57 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-57 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-57 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0505</b> |        | 1.00            |       | GC28F-1632-57 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 86.4       | 70.0-130   |                | GC28F-1632-57 |
| Decachlorobiphenyl      | 2051-24-3 | 74.5       | 70.0-130   |                | GC28F-1632-57 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 05/31/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150601110623 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-02 (AS11330)       | <b>Percent Solid:</b> N/A                |

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-58 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 00:50 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-58 |
| Aroclor 1221          | 11104-28-2 | <b>0.0498</b> | 0.0255 | 1.00            | PB    | GC28F-1632-58 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-58 |
| Aroclor 1242          | 53469-21-9 | <b>0.0128</b> | 0.0255 | 1.00            | AD,J  | GC28F-1632-58 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-58 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-58 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-58 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0626</b> |        | 1.00            |       | GC28F-1632-58 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 91.2       | 70.0-130   |                | GC28F-1632-58 |
| Decachlorobiphenyl      | 2051-24-3 | 76.1       | 70.0-130   |                | GC28F-1632-58 |

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150601110651  
**Lab Sample ID:** 15060021-03 (AS11331)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-61 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 01:31 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 1030 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-61 |
| Aroclor 1221          | 11104-28-2 | <b>0.0507</b> | 0.0250 | 1.00            | PB    | GC28F-1632-61 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-61 |
| Aroclor 1242          | 53469-21-9 | <b>0.0136</b> | 0.0250 | 1.00            | AD,J  | GC28F-1632-61 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-61 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-61 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-61 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0643</b> |        | 1.00            |       | GC28F-1632-61 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 89.9       | 70.0-130   |                | GC28F-1632-61 |
| Decachlorobiphenyl      | 2051-24-3 | 76.8       | 70.0-130   |                | GC28F-1632-61 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150601110857  
**Lab Sample ID:** 15060021-04 (AS11332)

**Collection Date:** 05/31/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-62 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 01:44 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-62 |
| Aroclor 1221          | 11104-28-2 | <b>0.103</b>  | 0.0255 | 1.00            | PB    | GC28F-1632-62 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-62 |
| Aroclor 1242          | 53469-21-9 | <b>0.0144</b> | 0.0255 | 1.00            | AD,J  | GC28F-1632-62 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-62 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-62 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-62 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1174</b> |        | 1.00            |       | GC28F-1632-62 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 89.0       | 70.0-130   |                | GC28F-1632-62 |
| Decachlorobiphenyl      | 2051-24-3 | 75.5       | 70.0-130   |                | GC28F-1632-62 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150601110922  
**Lab Sample ID:** 15060021-05 (AS11333)

**Collection Date:** 05/30/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-63 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 01:58 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Aroclor 1221          | 11104-28-2 | <b>0.0655</b> | 0.0255 | 1.00            | PB    | GC28F-1632-63 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-63 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0655</b> |        | 1.00            |       | GC28F-1632-63 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 88.3       | 70.0-130   |                | GC28F-1632-63 |
| Decachlorobiphenyl      | 2051-24-3 | 73.9       | 70.0-130   |                | GC28F-1632-63 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150601110951  
**Lab Sample ID:** 15060021-06 (AS11334)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-64 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 02:12 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Aroclor 1221          | 11104-28-2 | <b>0.0441</b> | 0.0255 | 1.00            | PB    | GC28F-1632-64 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1632-64 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0441</b> |        | 1.00            |       | GC28F-1632-64 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 85.7       | 70.0-130   |                | GC28F-1632-64 |
| Decachlorobiphenyl      | 2051-24-3 | 76.4       | 70.0-130   |                | GC28F-1632-64 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110724  
**Lab Sample ID:** 15060021-07 (AS11335)

**Collection Date:** 05/30/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-65 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 02:25 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 1000 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Aroclor 1221          | 11104-28-2 | 0.0349        | 0.0250 | 1.00            | PB    | GC28F-1632-65 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-65 |
| Total PCB Amount > RL | 1336-36-3  | 0.0349        |        | 1.00            |       | GC28F-1632-65 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 91.7       | 70.0-130   |                | GC28F-1632-65 |
| Decachlorobiphenyl      | 2051-24-3 | 79.1       | 70.0-130   |                | GC28F-1632-65 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110752  
**Lab Sample ID:** 15060021-08 (AS11336)

**Collection Date:** 05/31/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-66 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 02:39 | TJH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922         | EPA 3535A                           | 06/03/2015 09:41 | ER      | 1060 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Aroclor 1221          | 11104-28-2 | <b>0.0339</b> | 0.0250 | 1.00            | PB    | GC28F-1632-66 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1632-66 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0339</b> |        | 1.00            |       | GC28F-1632-66 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 90.2       | 70.0-130   |                | GC28F-1632-66 |
| Decachlorobiphenyl      | 2051-24-3 | 76.6       | 70.0-130   |                | GC28F-1632-66 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060021

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110823  
**Lab Sample ID:** 15060021-09 (AS11337)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column  |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|---|
| Analysis 1: | GC28F-1633-5 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 10:38 | TJH     | NA            | NA         | Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30922        | EPA 3535A                           | 06/03/2015 09:41 | ER      | 1070 mL       | 5.00 mL    | NA  |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Aroclor 1221          | 11104-28-2 | <b>0.0281</b> | 0.0250 | 1.00            | PB    | GC28F-1633-5 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-5 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0281</b> |        | 1.00            |       | GC28F-1633-5 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 90.7       | 70.0-130   |                | GC28F-1633-5 |
| Decachlorobiphenyl      | 2051-24-3 | 83.2       | 70.0-130   |                | GC28F-1633-5 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060021

ELAP ID No: 11078

Duplicate Lab ID No: AS11337D

Date Analyzed: 6/4/2015

Original Lab ID No: AS11337

| TEST PARAMETER         | ORIGINAL SAMPLE RESULT (mg/L) | DUPLICATE SAMPLE RESULT (mg/L) | RELATIVE <sup>1</sup> PERCENT DIFFERENCE (RPD) # |
|------------------------|-------------------------------|--------------------------------|--|
| TOTAL SUSPENDED SOLIDS | ND                            | ND                             | NA <sup>2</sup>                                  |

<sup>1</sup> Relative Percent Difference Limit <=20%

<sup>2</sup> RPD cannot be calculated due to one or both results below detection limit.

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2113 Date In Oven: 06/04/2015 Temp: 103.3 degree C Analyst: Daniel Dodaro

**Finish:** STD Lot # 060415B9P12 Date Out Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29192   | BLANK-69       | AS11329B      | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WR6        | 1000             | 0.1154         | 0.1155       | 0.1               |                    |       |      |          |
| 29191   | LCS-69         | AS11329L      | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WR7        | 250              | 0.1264         | 0.1464       | 80                | 100                | 80.0  |      |          |
| 29182   | 15060021-01    | AS11329       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WR8        | 980              | 0.1104         | 0.1120       | 1.63              |                    |       |      |          |
| 29183   | 15060021-02    | AS11330       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WR9        | 1020             | 0.1258         | 0.1277       | 1.86              |                    |       |      |          |
| 29184   | 15060021-03    | AS11331       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRA        | 970              | 0.1146         | 0.1178       | 3.3               |                    |       |      |          |
| 29185   | 15060021-04    | AS11332       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRB        | 1000             | 0.1255         | 0.1266       | 1.1               |                    |       |      |          |
| 29186   | 15060021-05    | AS11333       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRC        | 970              | 0.1182         | 0.1193       | 1.13              |                    |       |      |          |
| 29187   | 15060021-06    | AS11334       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRD        | 1040             | 0.1120         | 0.1143       | 2.21              |                    |       |      |          |
| 29188   | 15060021-07    | AS11335       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRE        | 1000             | 0.1165         | 0.1170       | 0.5               |                    |       |      |          |
| 29189   | 15060021-08    | AS11336       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRF        | 1010             | 0.1118         | 0.1129       | 1.09              |                    |       |      |          |
| 29190   | 15060021-09    | AS11337       | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRG        | 500              | 0.1258         | 0.1264       | 1.2               |                    |       |      |          |
| 29193   | 15060021-09DUP | AS11337D      | L      | <input checked="" type="checkbox"/> | 21:45        | 10:14         | WRH        | 530              | 0.1158         | 0.1165       | 1.32              |                    |       | 9.58 |          |
| 29194   | 15060095-01    | AS11763       | L      | <input checked="" type="checkbox"/> | 00:00        | 00:00         |            |                  | 0.0000         | 0.0000       | 0                 |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/8/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150601110550  
**Lab Sample ID:** 15060021-01 (AS11329)

**Collection Date:** 05/30/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.63          | 1.02 | 1.02            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 05/31/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150601110623 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-02 (AS11330)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.86          | 0.980 | 0.98            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150601110651  
**Lab Sample ID:** 15060021-03 (AS11331)

**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 3.30          | 1.03 | 1.03            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 05/31/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150601110857 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-04 (AS11332)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.10          | 1.00 | 1.00            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 05/30/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150601110922 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-05 (AS11333)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.13          | 1.03 | 1.03            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/01/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150601110951 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060021-06 (AS11334)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.21          | 0.962 | 0.96            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110724  
**Lab Sample ID:** 15060021-07 (AS11335)

**Collection Date:** 05/30/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | ND            | 1.00 | 1.00            | U     | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110752  
**Lab Sample ID:** 15060021-08 (AS11336)

**Collection Date:** 05/31/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.09          | 0.990 | 0.99            |       | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060021

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150601110823  
**Lab Sample ID:** 15060021-09 (AS11337)  
**Collection Date:** 06/01/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2113 | SM 2540D | 06/04/2015 21:45 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | ND            | 2.00 | 2.00            | U     | 2113    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 02, 2015

**Lab Report ID:** 15060023

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 05, 2015

CASE NARRATIVE

This data package (SDG ID: 15060023) consists of 2 water samples received on 06/02/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS11339              | FRS-LOC5-T150602083936 | 06/02/2015 06:00       |
| AS11340              | FRS-WAFA-T150602084033 | 06/02/2015 06:00       |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/02/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (4.) Sample (LAB ID: AS11339) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-939-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150602084117PACE

Sample Custodian: JR

Lab: PACE

| COC Sample Number | Field Sample ID        | QA/QC | Matrix ** | Date Collected | Time Collected | Media * | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|------------------------|-------|-----------|----------------|----------------|---------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | FRS-LOC5-T150602083936 | ENV   | W         | 06/02/2015     | 06:00          | W       | 3            | AS11339        |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |         |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |
| 002               | FRS-WAFA-T150602084033 | ENV   | W         | 06/02/2015     | 06:00          | W       | 4            | AS11340        |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |         |              |                | Total Suspended Solids | SM 2540D | N   | N  | Y                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |

Comments: Temp 3.7°C 2.5 3.8

| Relinquished by:        | Received by:            | Relinquished by:        | Received by:            | Relinquished by:       | Received by:           |
|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|
| Signature: [Signature]  | Signature: [Signature]  | Signature: [Signature]  | Signature: [Signature]  | Signature: [Signature] | Signature: [Signature] |
| Print Name: J. Roche    | Print Name: [Name]      | Print Name: [Name]      | Print Name: [Name]      | Print Name: [Name]     | Print Name: [Name]     |
| Company: AO             | Company: [Company]      | Company: [Company]      | Company: PACE           | Company: [Company]     | Company: [Company]     |
| Date/Time: 6/2/15 11:45 | Date/Time: 6/2/15 12:15 | Date/Time: 6/2/15 12:47 | Date/Time: 6/2/15 12:47 | Date/Time: [Date/Time] | Date/Time: [Date/Time] |

Date Printed: 6/2/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

**Sample Condition Upon Receipt**

<150600232>



CLIENT NAME: GE  
PROJECT: RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
TRACKING # N/A  
PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other   
THERMOMETER USED: #164  IR Gun 03  #122087967   
BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

No  INTACT: Yes  No  N/A   
ICE USED: Wet  Blue  None   
COOLER TEMPERATURE (°C): 3.7°C 25, 3.8°C  
Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |                   |
|--|---|--|---|-------------------|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 1.                |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 2.                |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 3.                |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 4.                |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 5.                |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |   | 6.                |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 7. <u>24 hour</u> |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 8.                |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 9.                |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |                   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 10.               |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 11.               |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 12.               |
| - Includes date/time/ID/Analysis   |   |  |   |                   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 13.               |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                   |
| - Exceptions that are not checked: VOA   |   |  |   |                   |
| Initial when completed:  | <u>N/A</u>                              | Lot # of added preservative:           | <u>N/A</u>                              |                   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.               |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.               |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                   |
| Pace Trip Blank Lot #:   | <u>N/A</u>                              |  |   |                   |

Sample Receipt form filled in: AJB 6/2/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
Log In (Includes notifying PM of any discrepancies and documenting in LIMS):  
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

JLG 6/2/15  
AJB 6/2/15  
JLG 6/2/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060023

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060023  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/02/2015 12:47  
**SHIPPED VIA:** PICK UP <sup>1</sup>**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SHIPPING ID:** <sup>3</sup>**SAMPLES REC'D IN HOLDTIME:** YES  
**NUMBER OF COOLERS:** 3  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** <sup>5</sup>3.7, 2.5, 3.8 °C  
**SAMPLE SEALS INTACT:** NA  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

### COMMENTS:

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150602083936 (AS11339) | *24 HOUR* 06-03-15        | 06/02/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-03-15        | 06/02/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150602084033 (AS11340) | *24 HOUR* 06-03-15        | 06/02/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-03-15        | 06/02/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/02/15

Batch ID: 30913

Method: EPA 3535A

Initial for required Clean Up Steps

| ID | Prep ID | LAB Sample ID | Alt Sample ID | Matrix | pH | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |
|----|---------|---------------|---------------|--------|----|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|
|    |         |               |               |        |    |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |
| 1  | 307225  | PBLK-79       | AS11231B      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 2  | 307224  | LCS-79        | AS11231L      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 3  | 307221  | 15060005-01   | AS11231RE1    | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 4  | 307222  | 15060023-01   | AS11339       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |
| 5  | 307223  | 15060023-02   | AS11340       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/02                               | NA                       | 06/02                       | 06/02                 | 5                   | 06/02             |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar) CURRENT              | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review: Kaitlyn Nedo  
Kaitlyn Nedo

Peer Review: Elizabeth Ramkirpaal  
Elizabeth Ramkirpaal

Print Date: 6/5/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060023**

**Batch ID: 30913**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst   | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|--------------------|------------------|
| AS11231B      | GC28F-1631-35 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11231L      | GC28F-1631-36 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11231RE1    | GC28F-1631-37 | Water  | 06/02/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11339RR1    | GC28F-1631-42 | Water  | 06/02/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |
| AS11340       | GC28F-1631-39 | Water  | 06/02/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Michael Abrahamson | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060023

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-79        | AS11231B      | GC28F-1631-35 | 93.4                   | 104                    |           |           | 0         |
| LCS-79         | AS11231L      | GC28F-1631-36 | 89.6                   | 102                    |           |           | 0         |
| 15060023-01RR1 | AS11339RR1    | GC28F-1631-42 | 93.3                   | 77.7                   |           |           | 0         |
| 15060023-02    | AS11340       | GC28F-1631-39 | 96.5                   | 83.4                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060023</u>                           |
| LCS Lab ID: <u>LCS-79</u>                | Blank Sample ID: <u>PBLK-79</u>                   |
| LCS File ID: <u>GC28F-1631-36</u>        | Method Blank File ID: <u>GC28F-1631-35</u>        |
| LCS Inj Date: <u>06/02/2015 18:54:09</u> | Method Blank Inj Date: <u>06/02/2015 18:40:01</u> |
| LCS ID: <u>AS11231L</u>                  | Method Blank ID: <u>AS11231B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.244                       | 97.4                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060023</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-79</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11231B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1631-35</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/02/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/02/2015</u>  |
|  | Time Analyzed: <u>18:40:01</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-79(LAB CONTROL SPIKE) | AS11231L         | GC28F-1631-36  | 06/02/2015 18:54:09     |
| FRS-WAFA-T150602084033    | AS11340          | GC28F-1631-39  | 06/02/2015 19:35:51     |
| FRS-LOC5-T150602083936    | AS11339RR1       | GC28F-1631-42  | 06/02/2015 20:22:50     |

# SAMPLE ANALYSIS DATA

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060023</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060023-01RR1</u>         |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-LOC5-T150602083936</u> |
| Sample wt(Dry)/vol:   | <u>1070 mL</u>  | Lab Sample ID:   | <u>AS11339RR1</u>             |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1631-42</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/02/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/02/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/02/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0997                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0230                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11339RR1              | Sample Amount (L) : | 1.0700                       |
| Sample ID:         | FRS-LOC5-T150602083936  | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 8:22:50 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 10:23:46 PM EDT     |
| Sample Set Name:   | GC28F_060215f           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:17:05 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-42 [m]            |

**Peak Results**

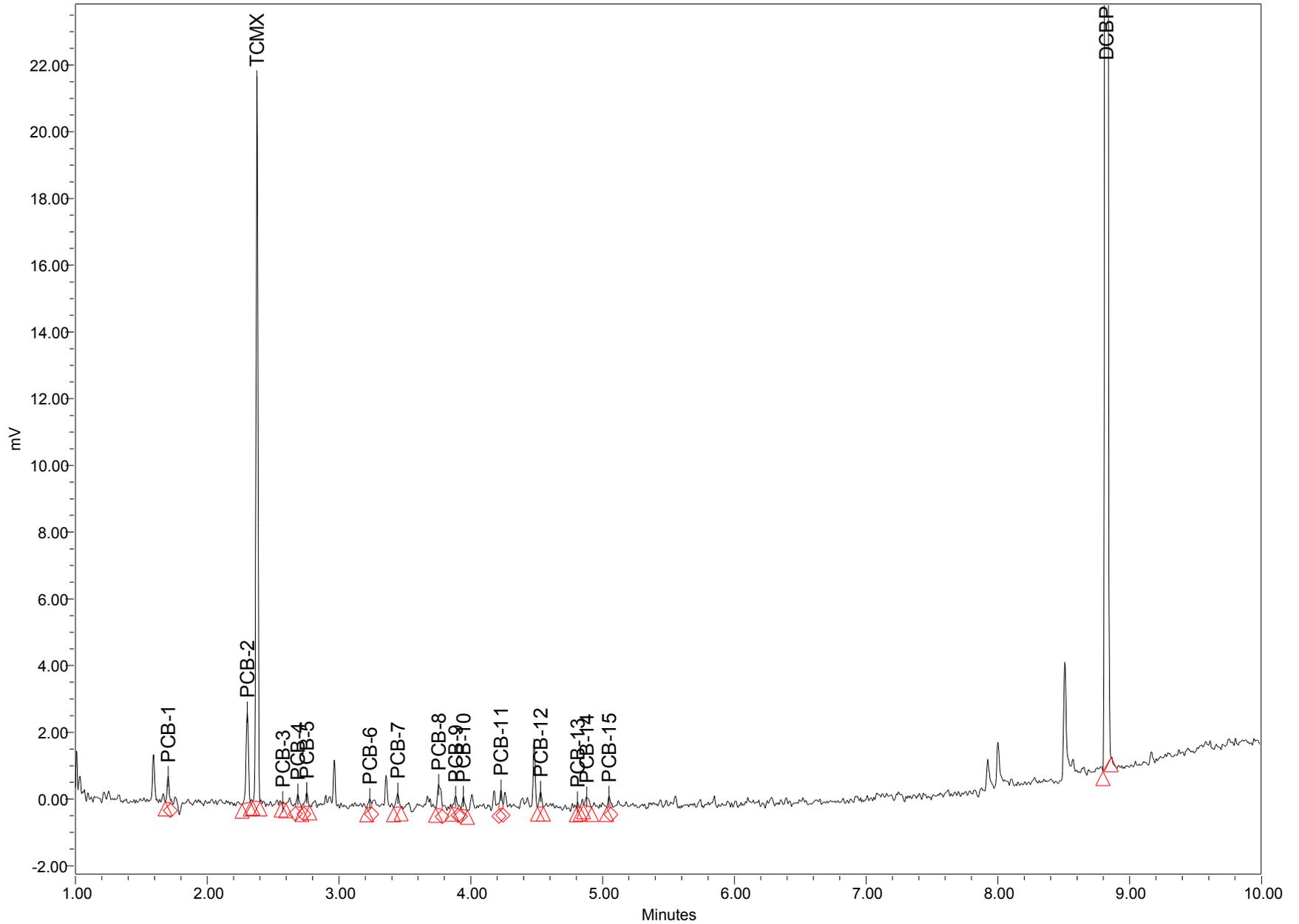
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.703          | bv               | 854           |                      |             |             |
| 2  | PCB-2     | 2.304          | bb               | 3394          |                      |             |             |
| 3  | TCMX      | 2.377          | BB               | 22787         | 4.663                | 93.3        |             |
| 4  | PCB-3     | 2.573          | bb               | 43            |                      |             |             |
| 5  | PCB-4     | 2.687          | vb               | 510           |                      |             |             |
| 6  | PCB-5     | 2.755          | vb               | 554           |                      |             |             |
| 7  | PCB-6     | 3.233          | bv               | 348           |                      |             |             |
| 8  | PCB-7     | 3.445          | bb               | 606           |                      |             |             |
| 9  | PCB-8     | 3.757          | bv               | 1343          |                      |             |             |
| 10 | PCB-9     | 3.885          | Bv               | 534           |                      |             |             |
| 11 | PCB-10    | 3.944          | Vb               | 521           |                      |             |             |
| 12 | PCB-11    | 4.229          | vV               | 617           |                      |             |             |
| 13 | PCB-12    | 4.529          | bb               | 598           |                      |             |             |
| 14 | PCB-13    | 4.809          | bb               | 126           |                      |             |             |
| 15 | PCB-14    | 4.879          | bb               | 507           |                      |             |             |
| 16 | PCB-15    | 5.049          | bv               | 372           |                      |             |             |
| 17 | DCBP      | 8.824          | Bb               | 161484        | 38.836               |             | 77.7        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 3351.8328           | 3.807                | 0.01779     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 5354.0162           | 21.339               | 0.09972     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 1960.0198           | 8.810                | 0.04117     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 4800.3649           | 38.464               | 0.17974     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 3557.6261           | 8.146                | 0.03807     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 1680.6342           | 7.774                | 0.03633     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 3351.8328           | 4.919                | 0.02299     | 0.0250   | 0.00873  | X      | AD,J |
| 8 | A1248       | 2220.5832           | 2.484                | 0.01161     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1248-11/15 | 1231.5273           | 2.542                | 0.01188     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 1341.0681           | 3.440               | 0.01608     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11339RR1; Sample\_ID FRS-LOC5-T150602083936

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060023</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060023-02</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150602084033</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11340</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1631-39</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/02/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/02/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/02/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0812                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0341                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.00875               | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11340                 | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | FRS-WAFA-T150602084033  | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 7:35:51 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 8:37:02 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:17:01 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ug/L      | LIMS File ID:       | GC28F-1631-39 [m]            |

**Peak Results**

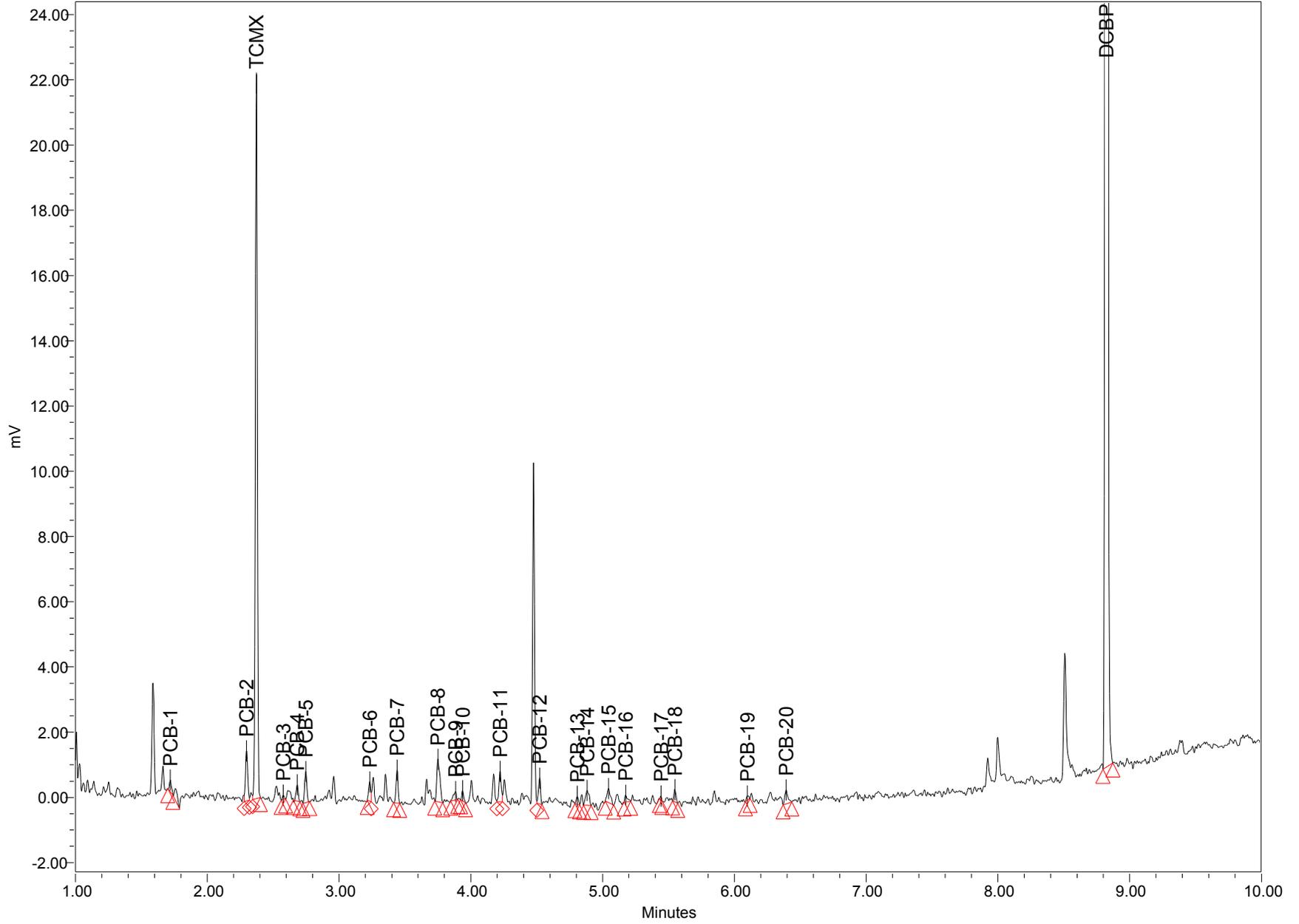
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.720          | bb               | 393           |                      |             |             |
| 2  | PCB-2     | 2.298          | VV               | 1846          |                      |             |             |
| 3  | TCMX      | 2.372          | Vb               | 23556         | 4.824                | 96.5        |             |
| 4  | PCB-3     | 2.576          | bb               | 132           |                      |             |             |
| 5  | PCB-4     | 2.683          | bb               | 580           |                      |             |             |
| 6  | PCB-5     | 2.747          | bb               | 1117          |                      |             |             |
| 7  | PCB-6     | 3.233          | bV               | 638           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 1090          |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 2155          |                      |             |             |
| 10 | PCB-9     | 3.884          | bb               | 397           |                      |             |             |
| 11 | PCB-10    | 3.937          | bb               | 325           |                      |             |             |
| 12 | PCB-11    | 4.222          | VV               | 1152          |                      |             |             |
| 13 | PCB-12    | 4.522          | Vb               | 894           |                      |             |             |
| 14 | PCB-13    | 4.808          | bb               | 280           |                      |             |             |
| 15 | PCB-14    | 4.883          | bb               | 859           |                      |             |             |
| 16 | PCB-15    | 5.045          | bb               | 773           |                      |             |             |
| 17 | PCB-16    | 5.175          | bb               | 290           |                      |             |             |
| 18 | PCB-17    | 5.443          | bb               | 65            |                      |             |             |
| 19 | PCB-18    | 5.548          | bb               | 406           |                      |             |             |
| 20 | PCB-19    | 6.098          | bb               | 173           |                      |             |             |
| 21 | PCB-20    | 6.392          | bb               | 711           |                      |             |             |
| 22 | DCBP      | 8.824          | bb               | 172453        | 41.705               |             | 83.4        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 4604.0521           | 5.296                | 0.02648     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 4069.2925           | 16.234               | 0.08117     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2222.9439           | 9.908                | 0.04954     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 2952.2682           | 23.818               | 0.11909     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 5083.1118           | 11.643              | 0.05822     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 2531.1539           | 11.949              | 0.05975     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 4604.0521           | 6.824               | 0.03412     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 3958.9178           | 4.837               | 0.02418     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 2033.6453           | 4.211               | 0.02105     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 2326.0586           | 6.207               | 0.03104     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1645.6083           | 1.750               | 0.00875     | 0.0250   | 0.00873  | X      | AF,J |
| 12 | A1254-17/18 | 1174.5507           | 2.159               | 0.01079     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 761.4029            | 1.346               | 0.00673     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 934.7245            | 1.416               | 0.00708     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 710.8839            | 0.468               | 0.00234     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 710.8839            | 1.158               | 0.00579     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 710.8839            |                     |             |          |          | NR     |      |



SampleName AS11340; Sample\_ID FRS-WAFA-T150602084033



|                    |                        |                      |                       |
|--------------------|------------------------|----------------------|-----------------------|
| Lab ID:            | AS11340                | Current Date Time:   | 6/5/2015 09:06:03     |
| Sample ID:         | FRS-WAFA-T150602084033 | LIMS File ID:        | GC28F-1631-39         |
| Matrix:            | Water                  | Calibration ID:      | 6976                  |
| Date Analyzed:     | 06/02/2015 7:35:51 PM  | Calibration Date(s): | 03/12/2015,03/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                       |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{4069.292543 - -16.185578}{251.658479} = 16.2342 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{16.2342 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1000 \text{ mL}} = 0.0812 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060023

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/5/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060023

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u> DCBP RT: <u>8.83</u>                            |                           |             |                      |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1242 50 PPB              | CS420602A   | GC28F-1631-33        | 06/02/2015 18:01:13        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150602B08   | GC28F-1631-34        | 06/02/2015 18:15:04        | 2.37                       | 8.82 |
| 58   | PBLK-79(METHOD BLANK)     | AS11231B    | GC28F-1631-35        | 06/02/2015 18:40:01        | 2.38                       | 8.83 |
| 59   | LCS-79(LAB CONTROL SPIKE) | AS11231L    | GC28F-1631-36        | 06/02/2015 18:54:09        | 2.37                       | 8.82 |
| 60   | ZZZZZ                     | ZZZZZ       | GC28F-1631-37        | 06/02/2015 19:08:07        | 2.37                       | 8.82 |
| 61   | FRS-WAFA-T150602084033    | AS11340     | GC28F-1631-39        | 06/02/2015 19:35:51        | 2.37                       | 8.82 |
| 62   | A1248 50 PPB              | CS480602A   | GC28F-1631-40        | 06/02/2015 19:49:52        | 2.37                       | 8.82 |
| 63   | HEXANE BLANK-SURR         | 150602B09   | GC28F-1631-41        | 06/02/2015 20:03:39        | 2.37                       | 8.82 |
| 64   | FRS-LOC5-T150602083936    | AS11339RR1  | GC28F-1631-42        | 06/02/2015 20:22:50        | 2.38                       | 8.82 |
| 65   | A1254 50 PPB              | CS540602A   | GC28F-1631-43        | 06/02/2015 20:36:46        | 2.37                       | 8.82 |
| 66   | HEXANE BLANK-SURR         | 150602B10   | GC28F-1631-44        | 06/02/2015 20:50:32        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/5/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060023

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/5/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060023

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

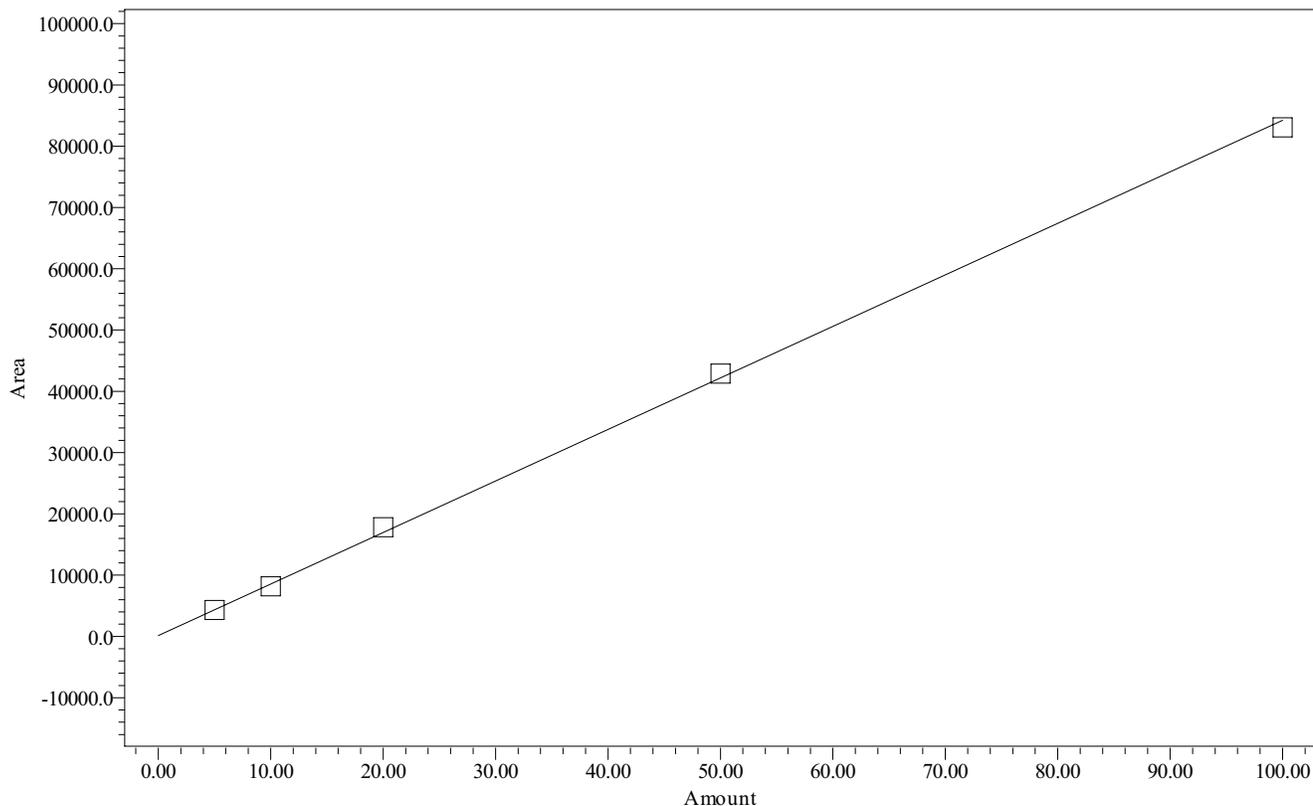
**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1016                    | Coefficient constant A:           | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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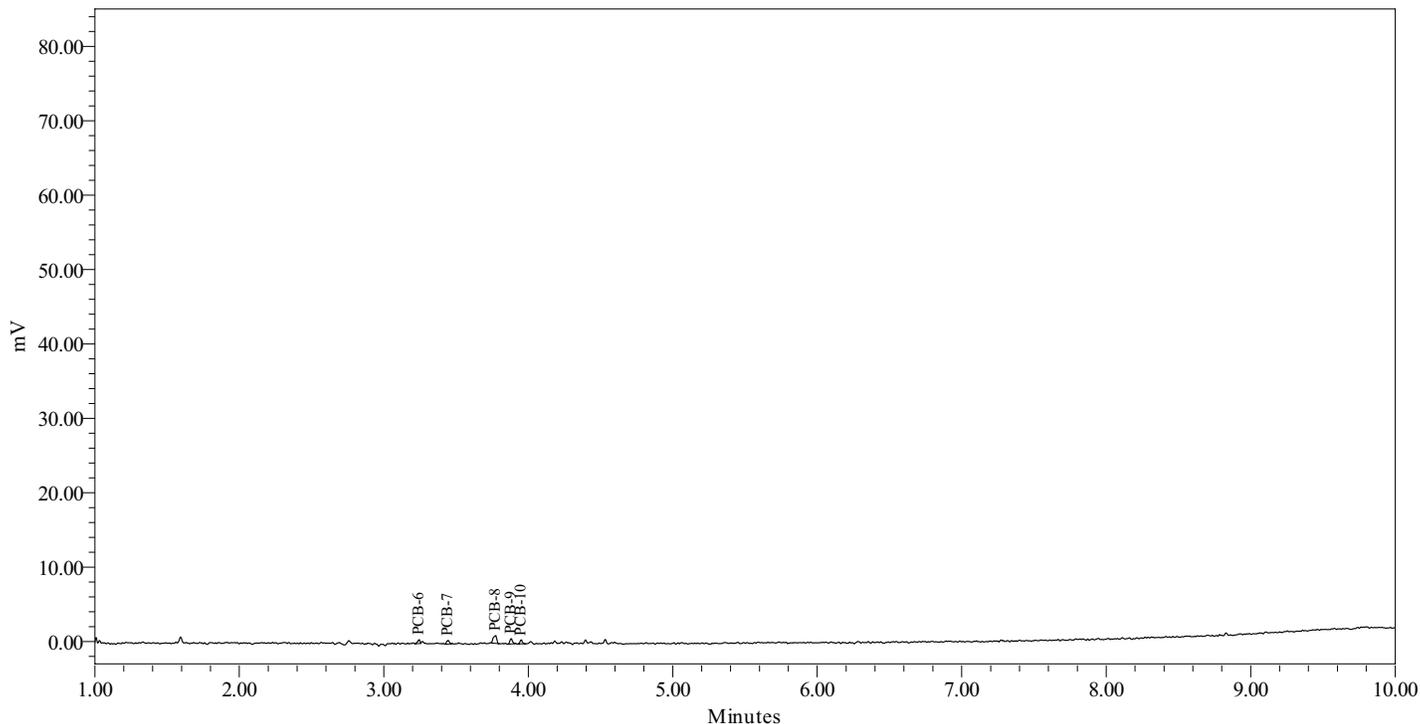
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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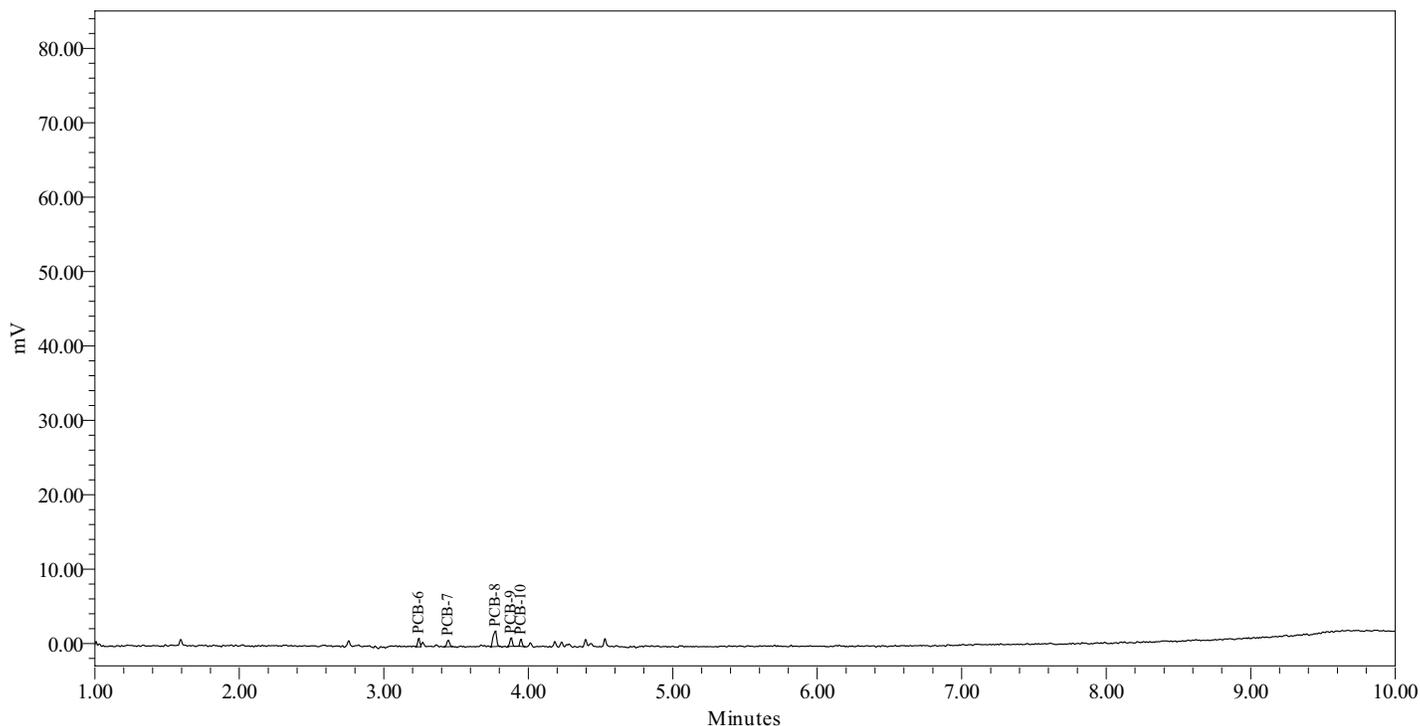
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 1182          |
| 2 | PCB-7     | 3.445          | bb               | 1151          |
| 3 | PCB-8     | 3.771          | bb               | 3544          |
| 4 | PCB-9     | 3.881          | bb               | 1340          |
| 5 | PCB-10    | 3.949          | bb               | 974           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 8191                | 10.000               |
| 2 | A1232      | 7009                |                      |
| 3 | A1232-8/9  | 2125                |                      |
| 4 | A1242      | 8191                |                      |



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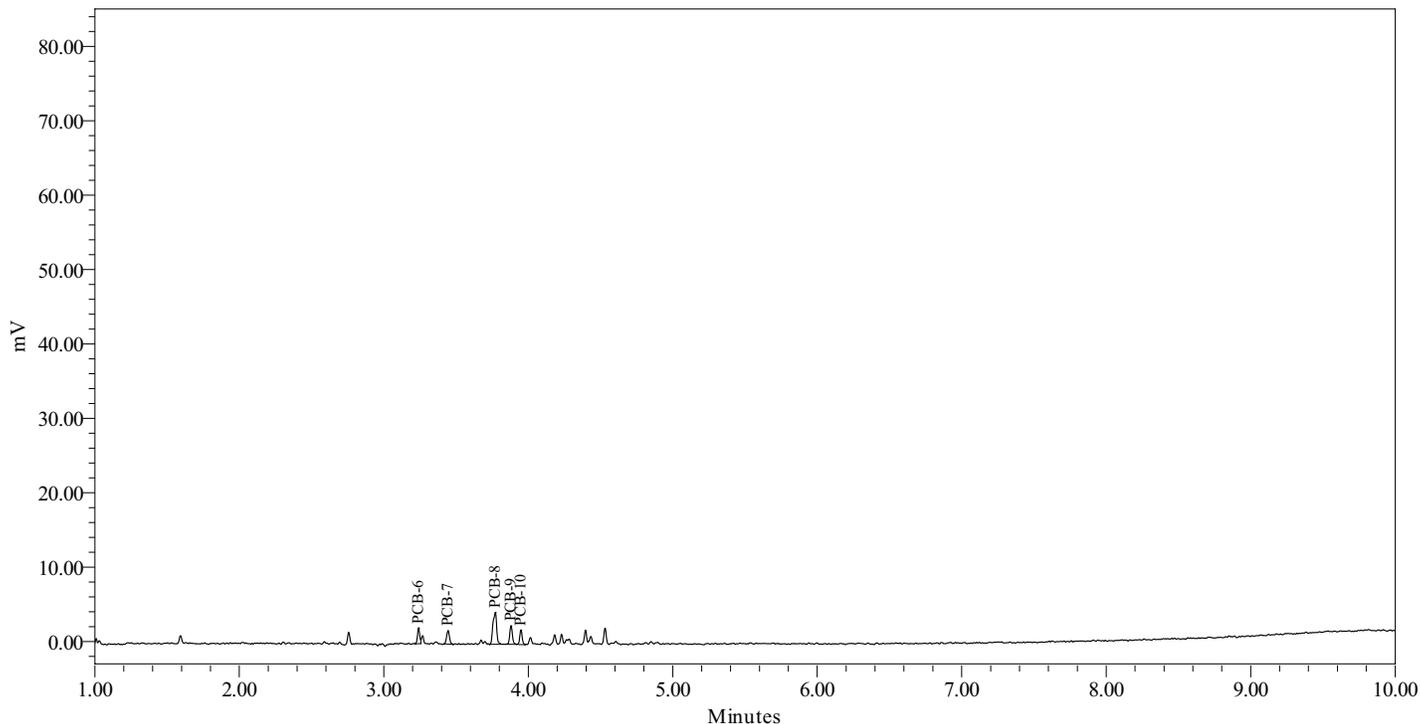
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 2349          |
| 2 | PCB-7     | 3.444          | bb               | 2467          |
| 3 | PCB-8     | 3.771          | bb               | 7692          |
| 4 | PCB-9     | 3.880          | bV               | 3110          |
| 5 | PCB-10    | 3.949          | Vb               | 2214          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 17832               | 20.000               |
| 2 | A1232      | 15483               |                      |
| 3 | A1232-8/9  | 4681                |                      |
| 4 | A1242      | 17832               |                      |



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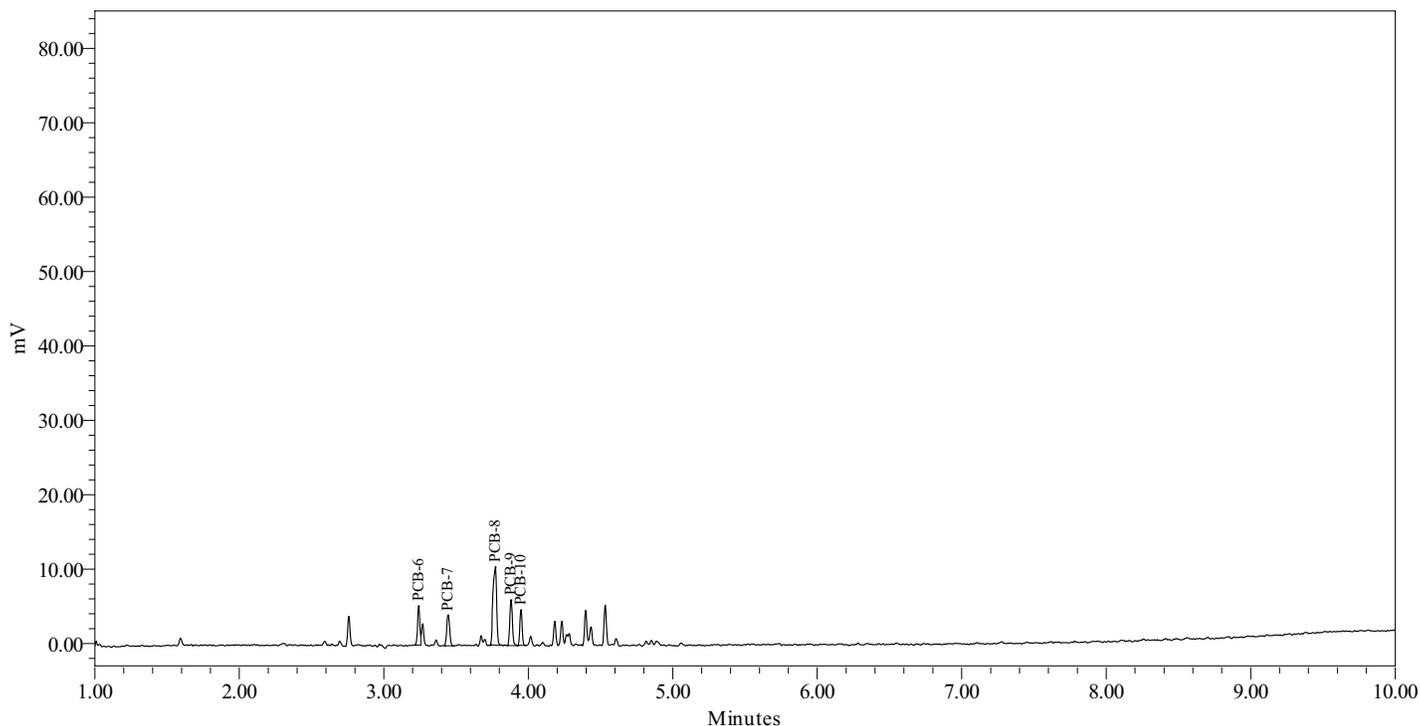
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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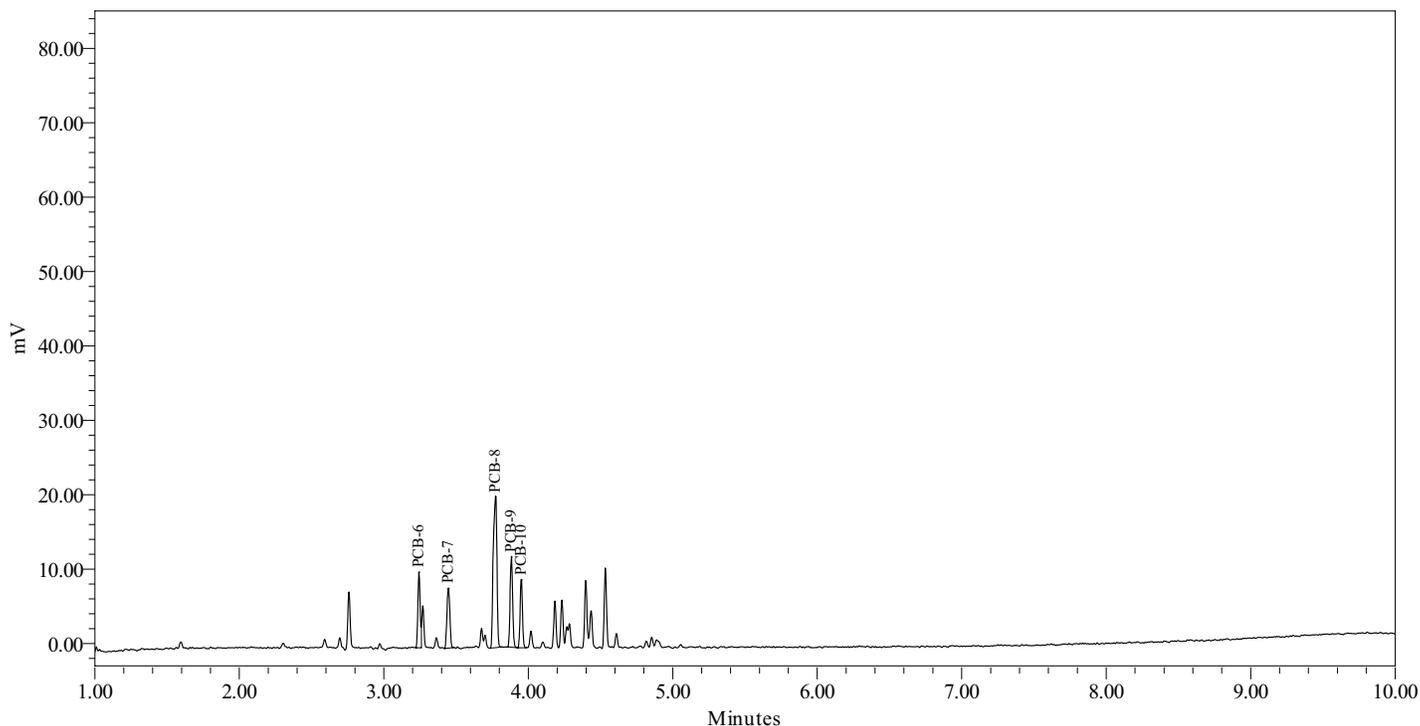
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 11381         |
| 2 PCB-7   | 3.447          | bb               | 11368         |
| 3 PCB-8   | 3.773          | bb               | 35910         |
| 4 PCB-9   | 3.883          | bB               | 14405         |
| 5 PCB-10  | 3.951          | Bb               | 10008         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 83072               | 100.000              |
| 2 A1232     | 71691               |                      |
| 3 A1232-8/9 | 21376               |                      |
| 4 A1242     | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

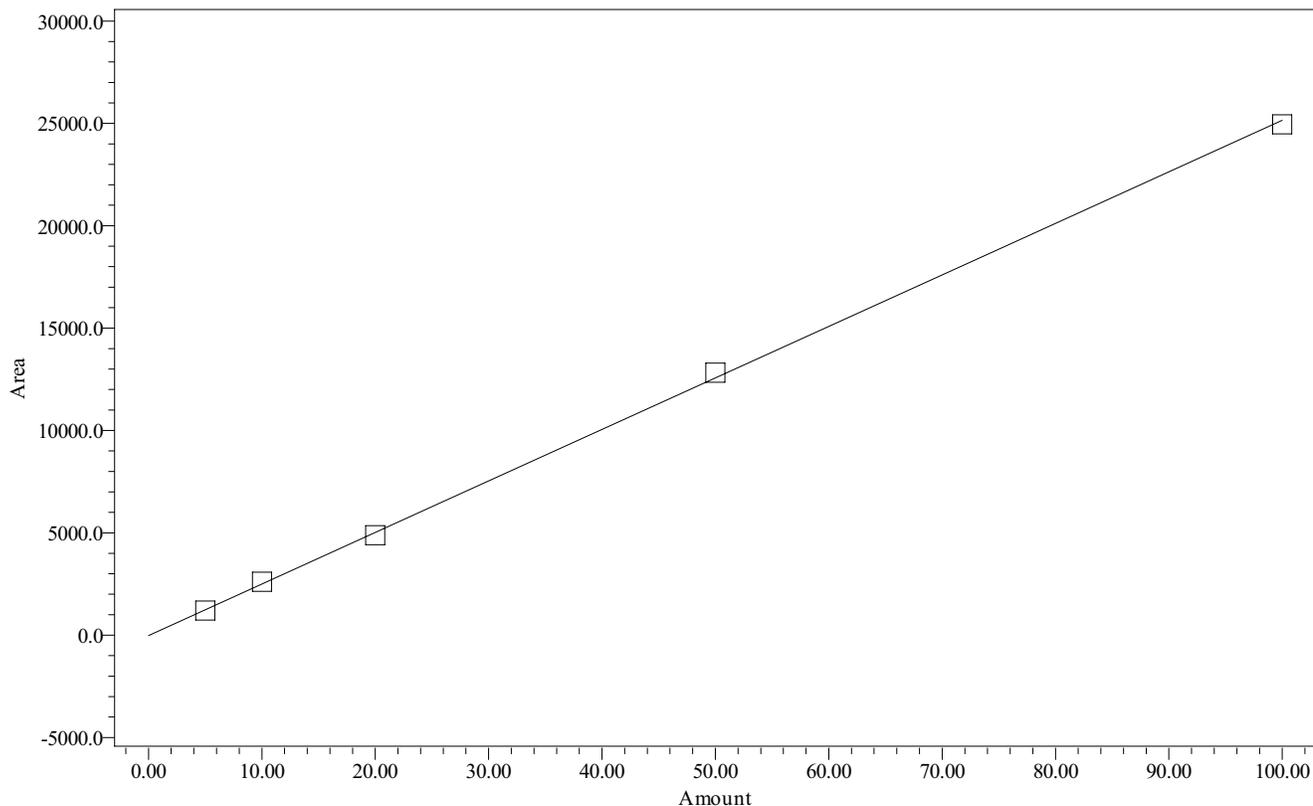
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

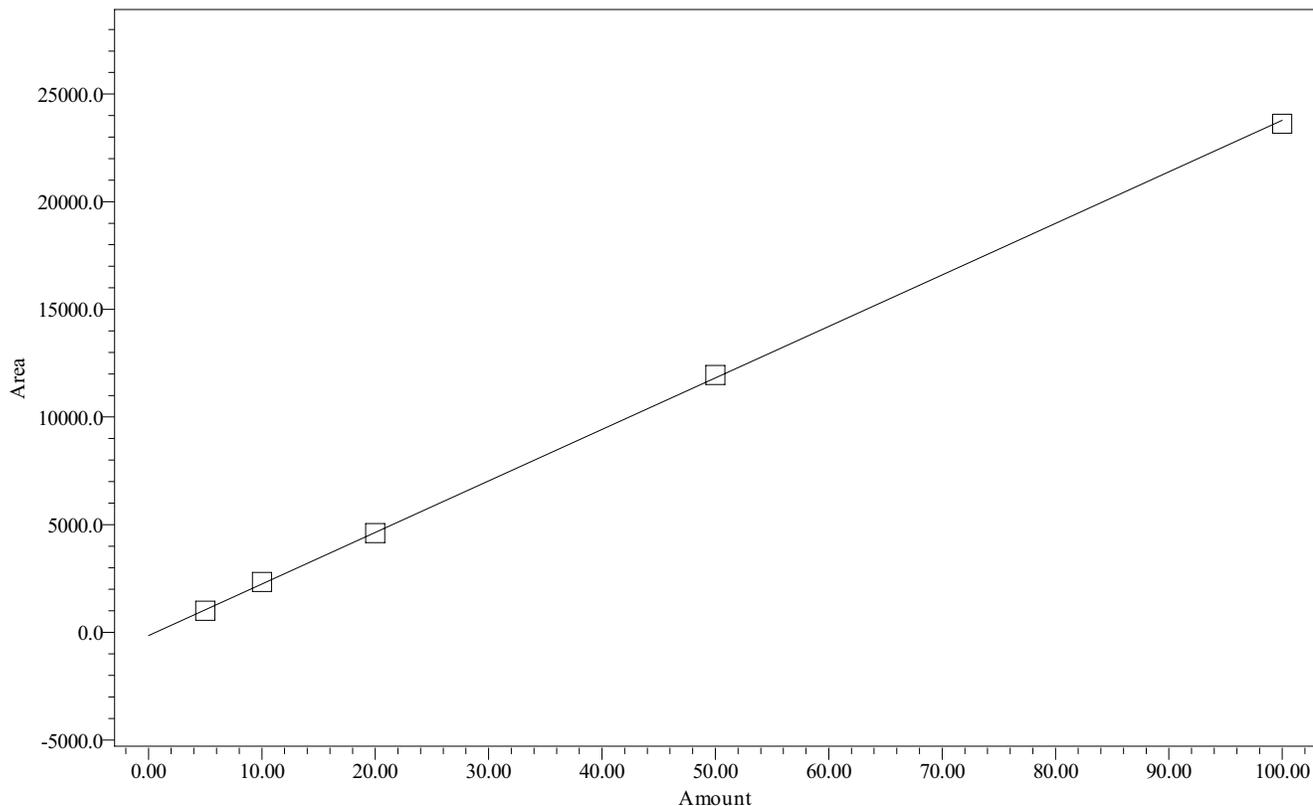
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1221-2                  | Coefficient constant A:                       | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999691    |

Calibration Curve



Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

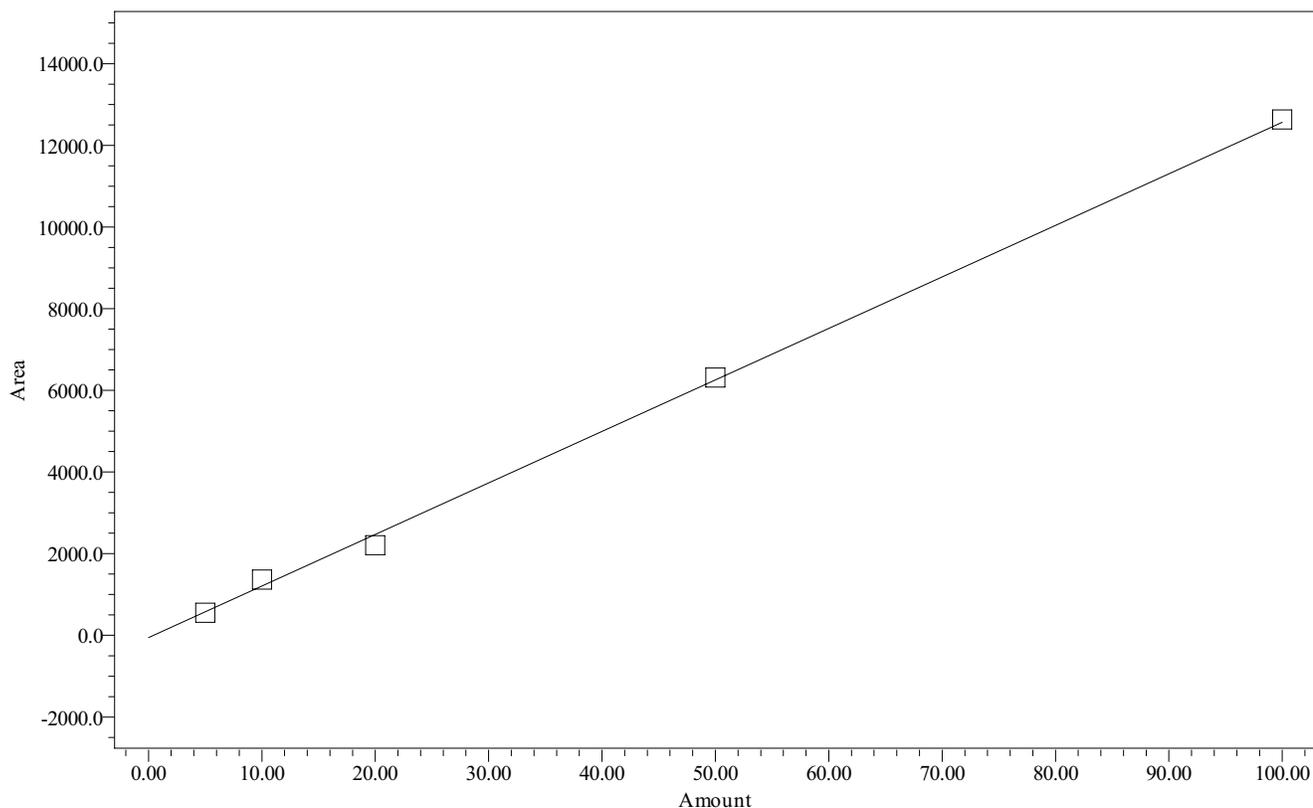
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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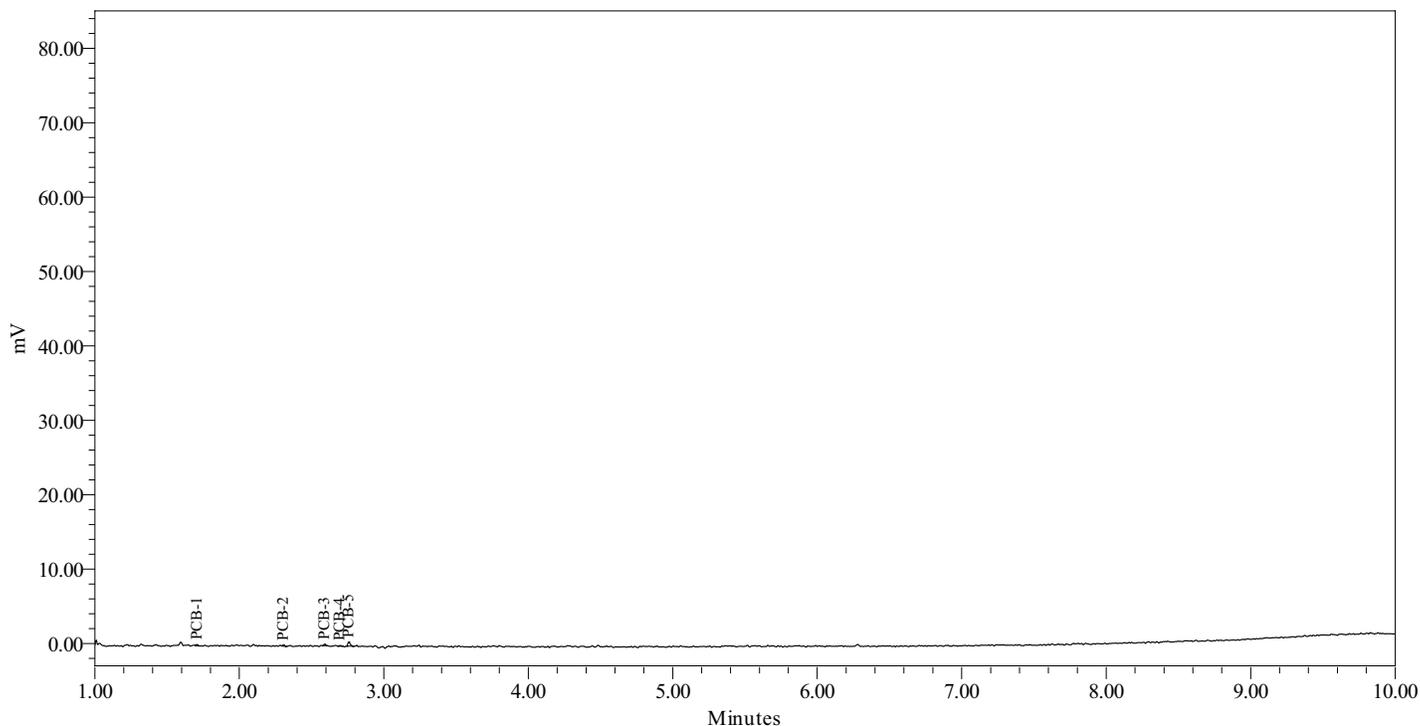
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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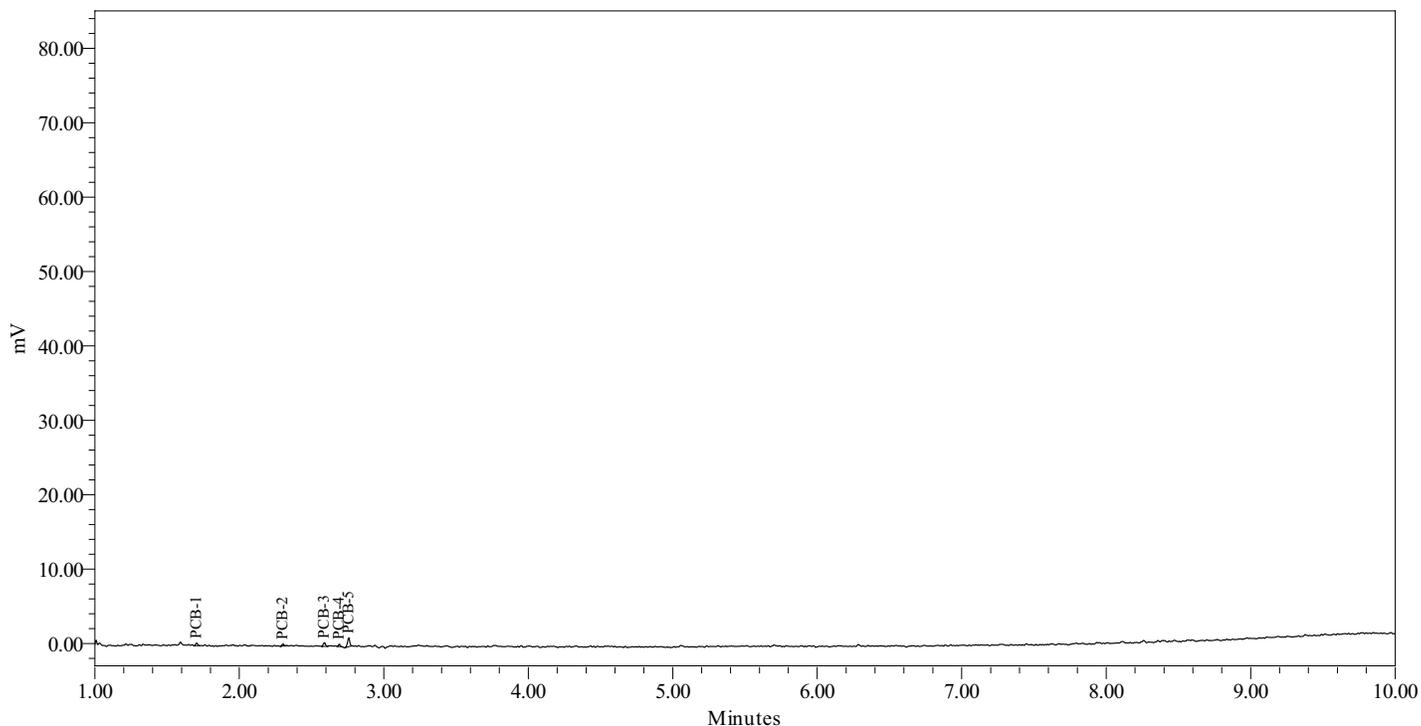
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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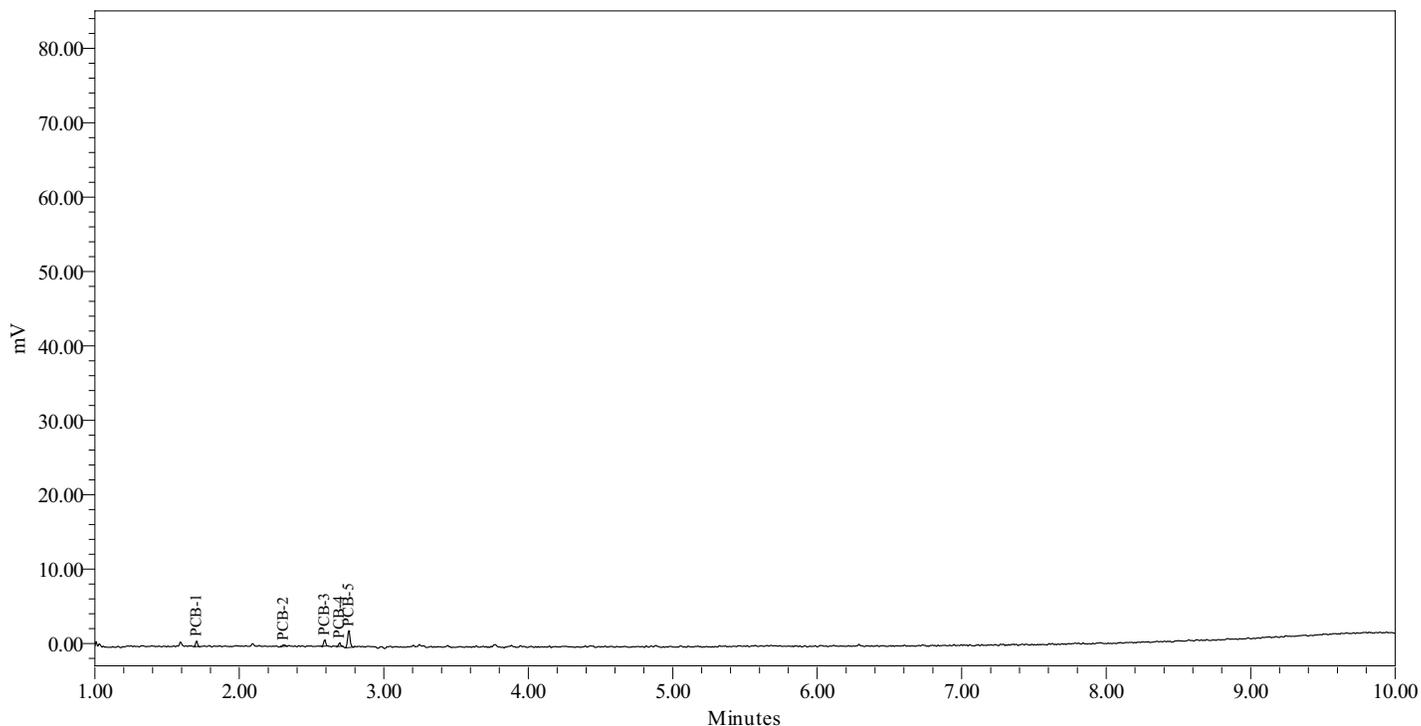
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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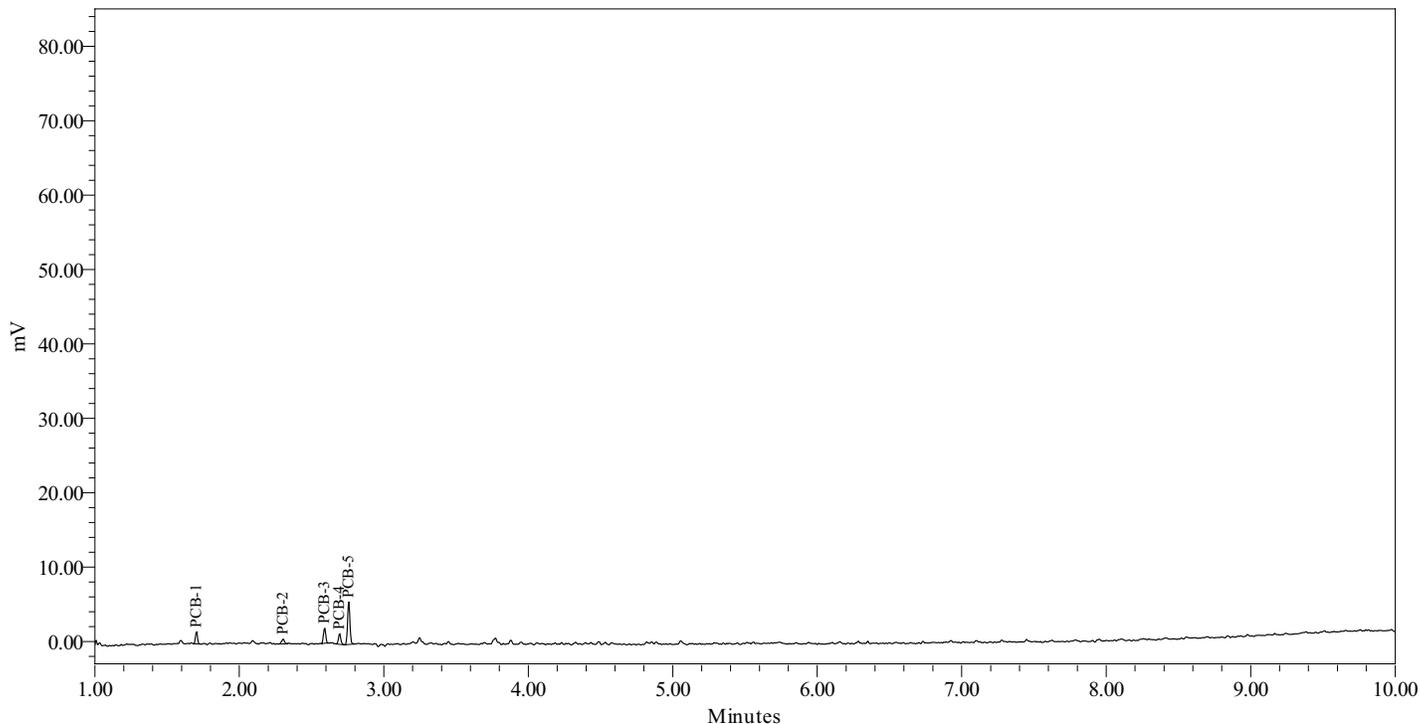
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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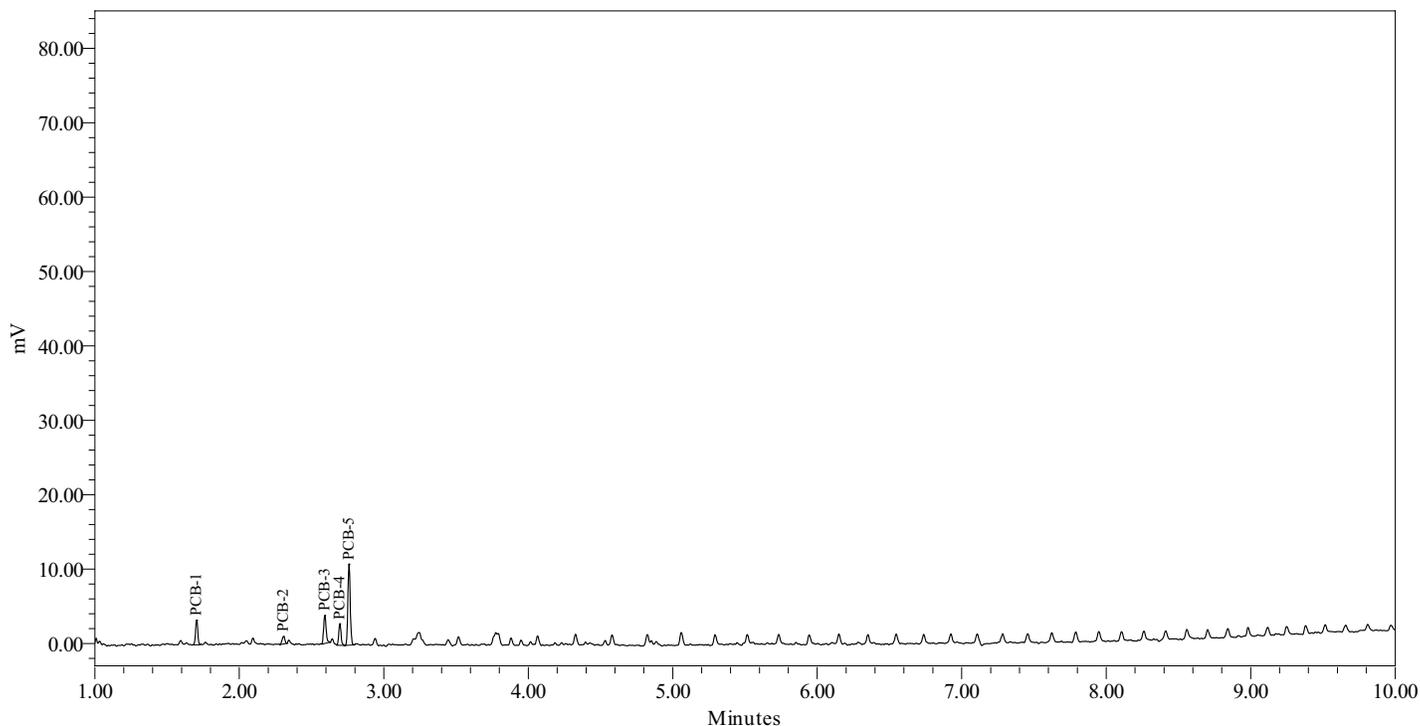
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

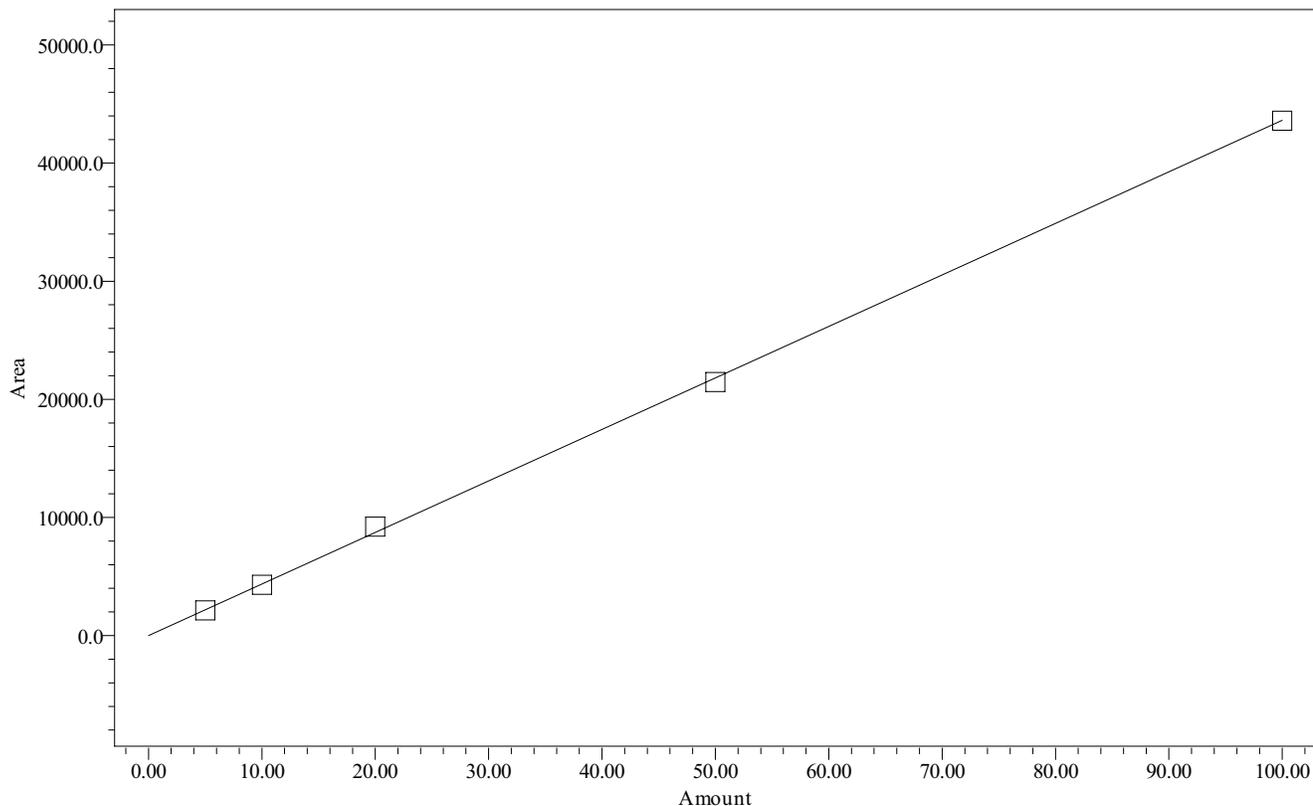
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232                    | Coefficient constant A:           | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

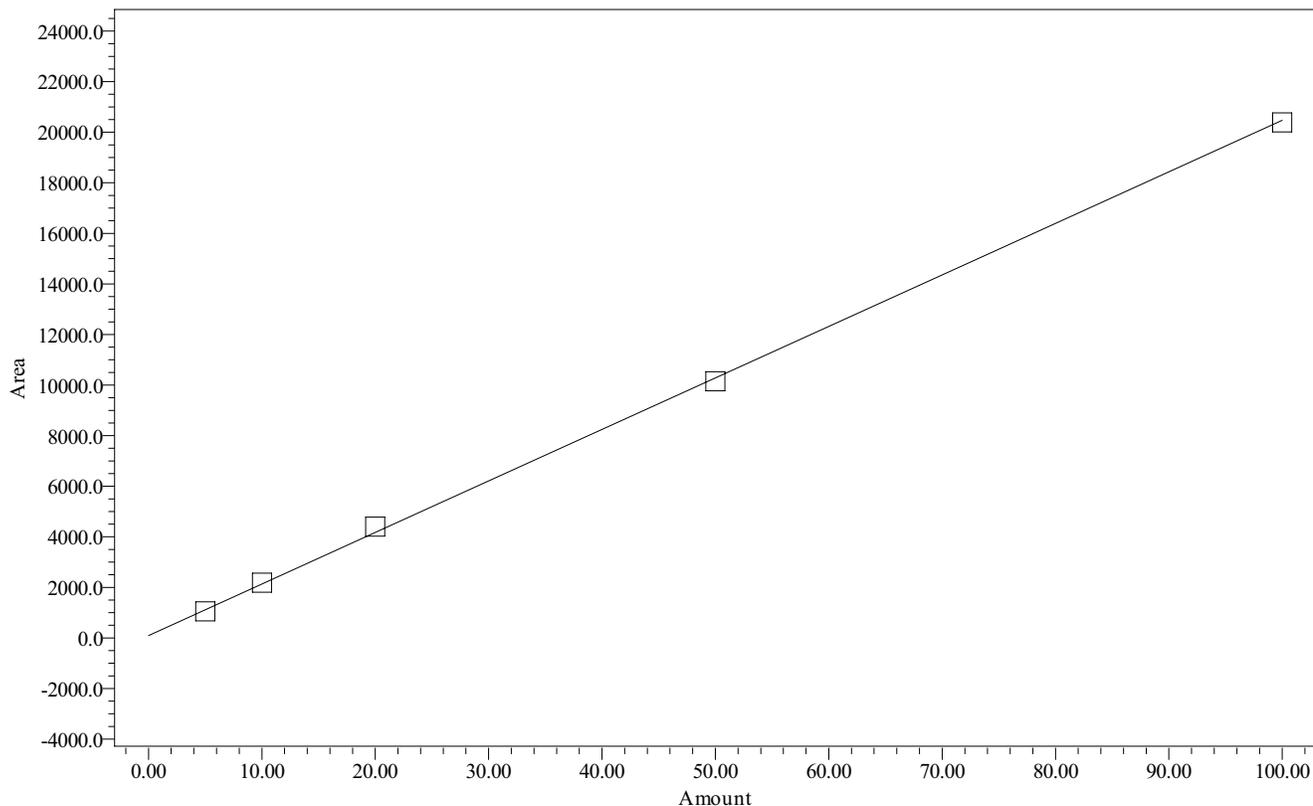
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232-8/9                | Coefficient constant A:                       | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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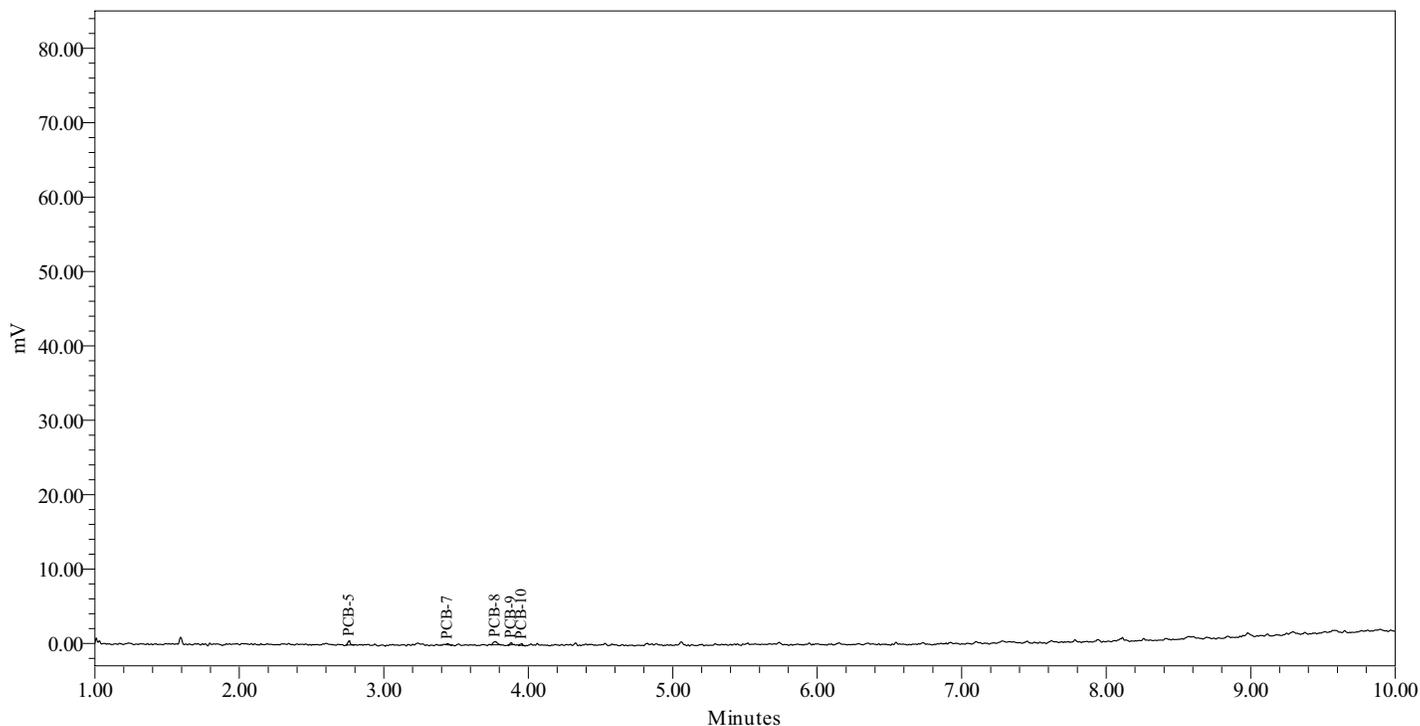
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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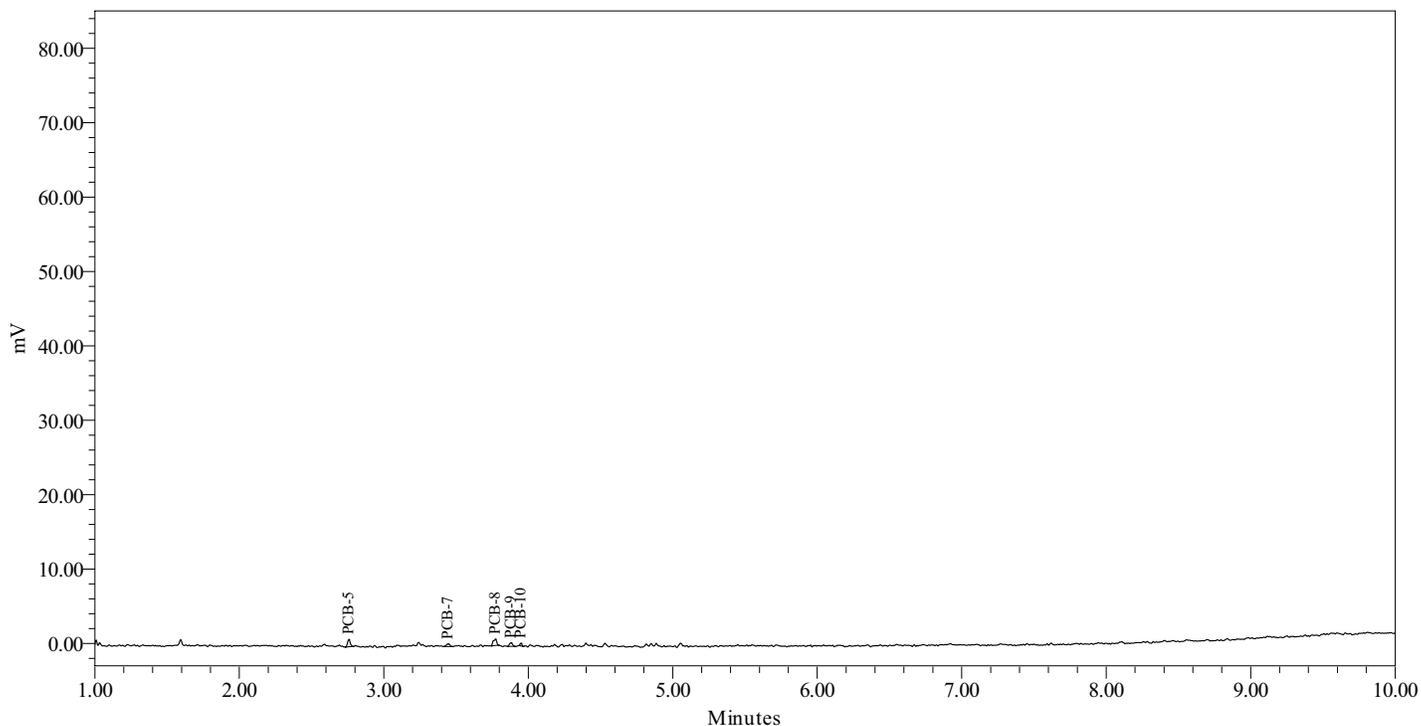
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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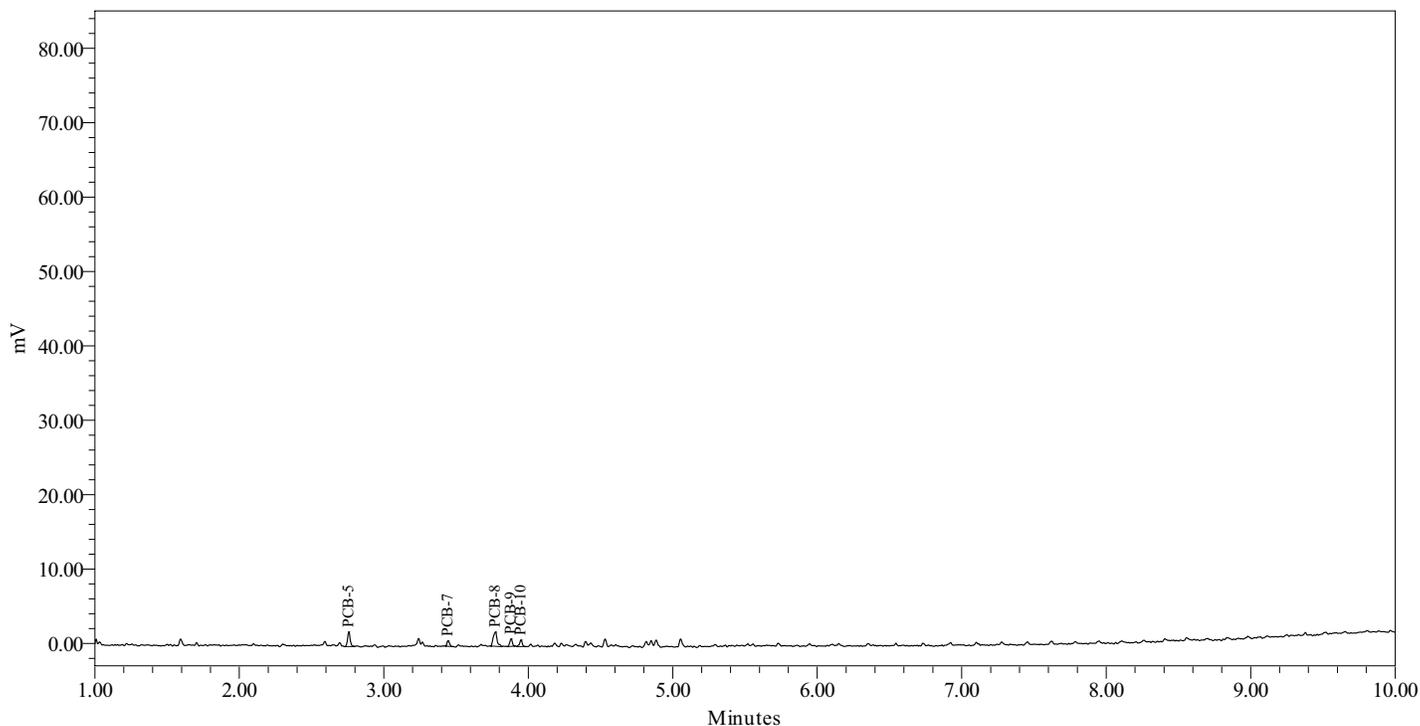
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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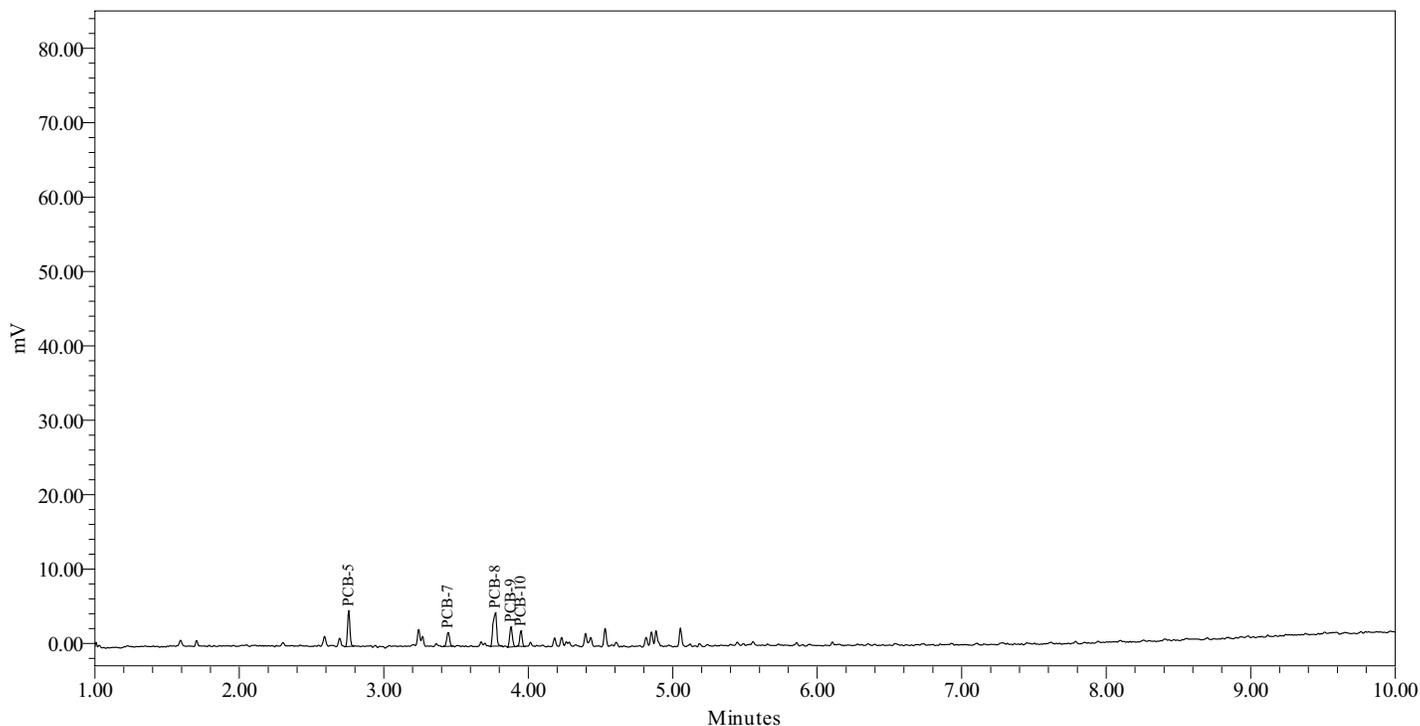
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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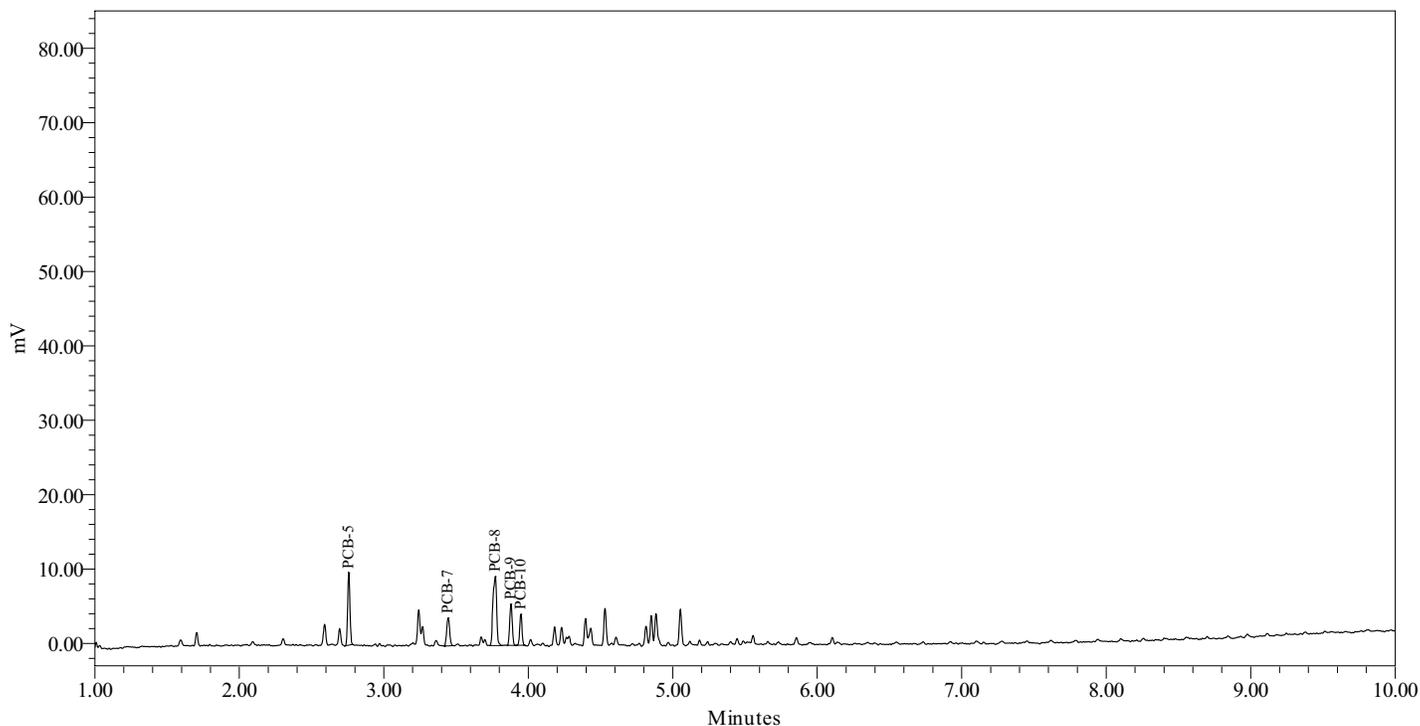
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

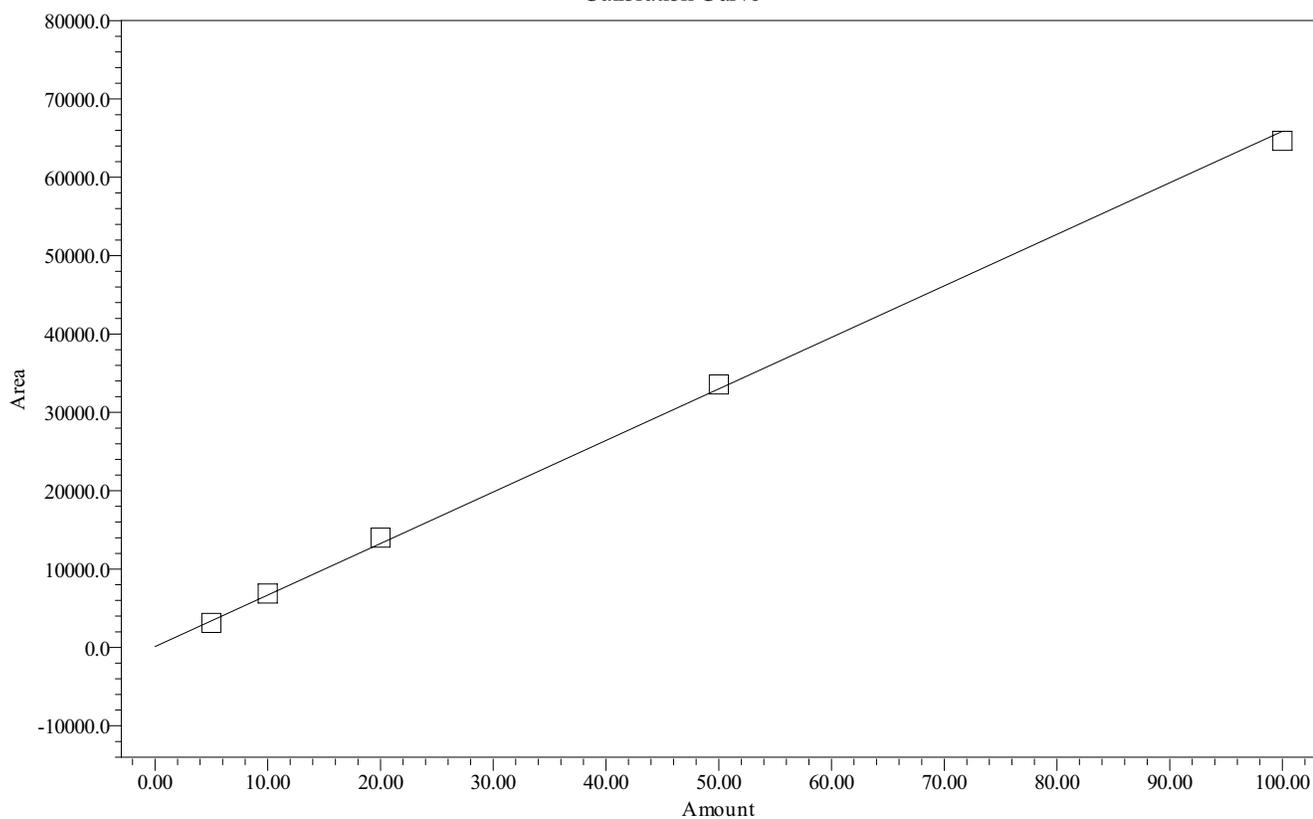
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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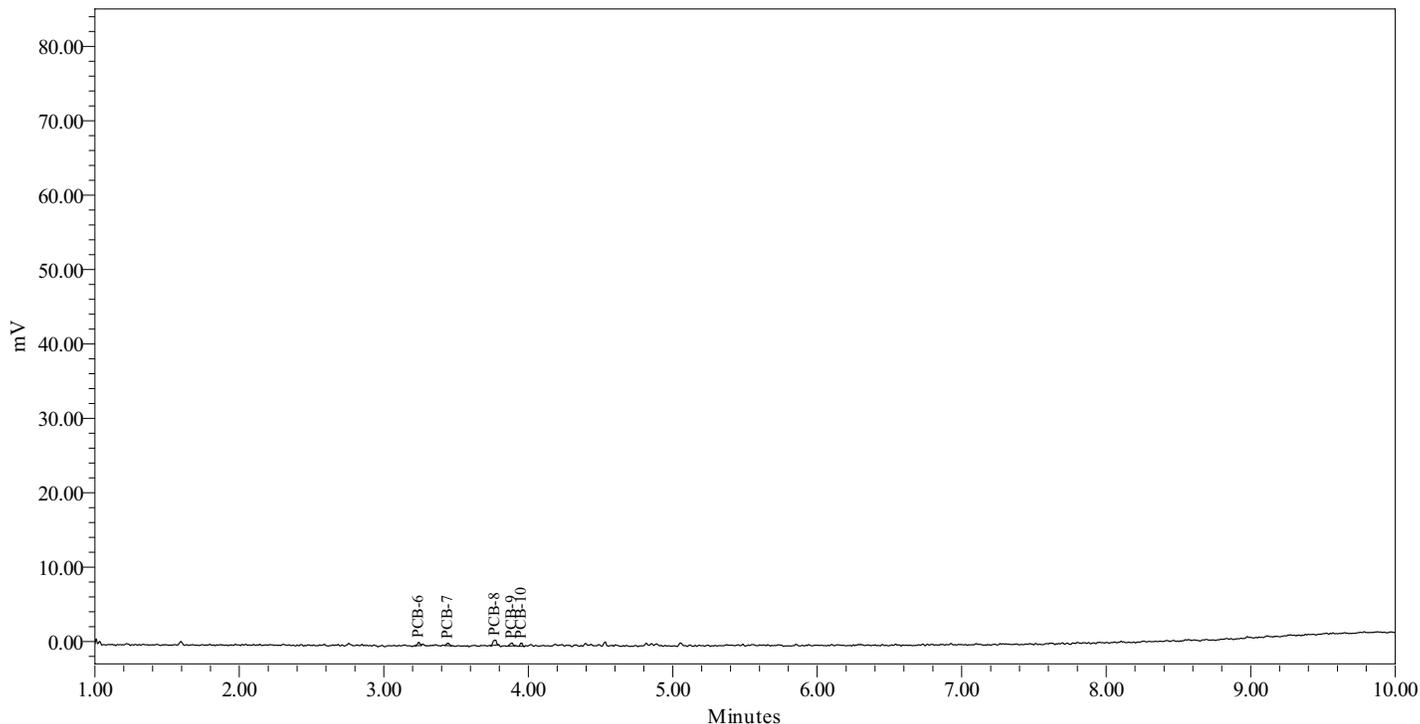
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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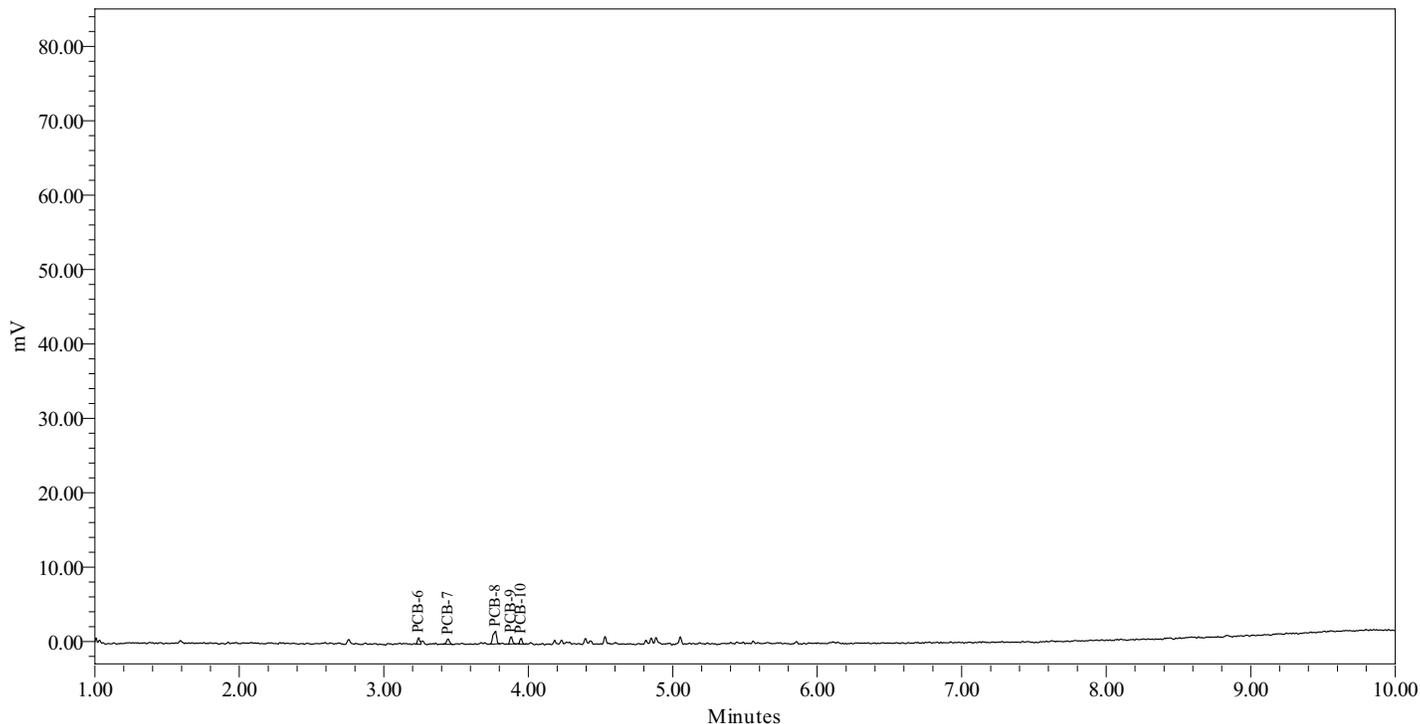
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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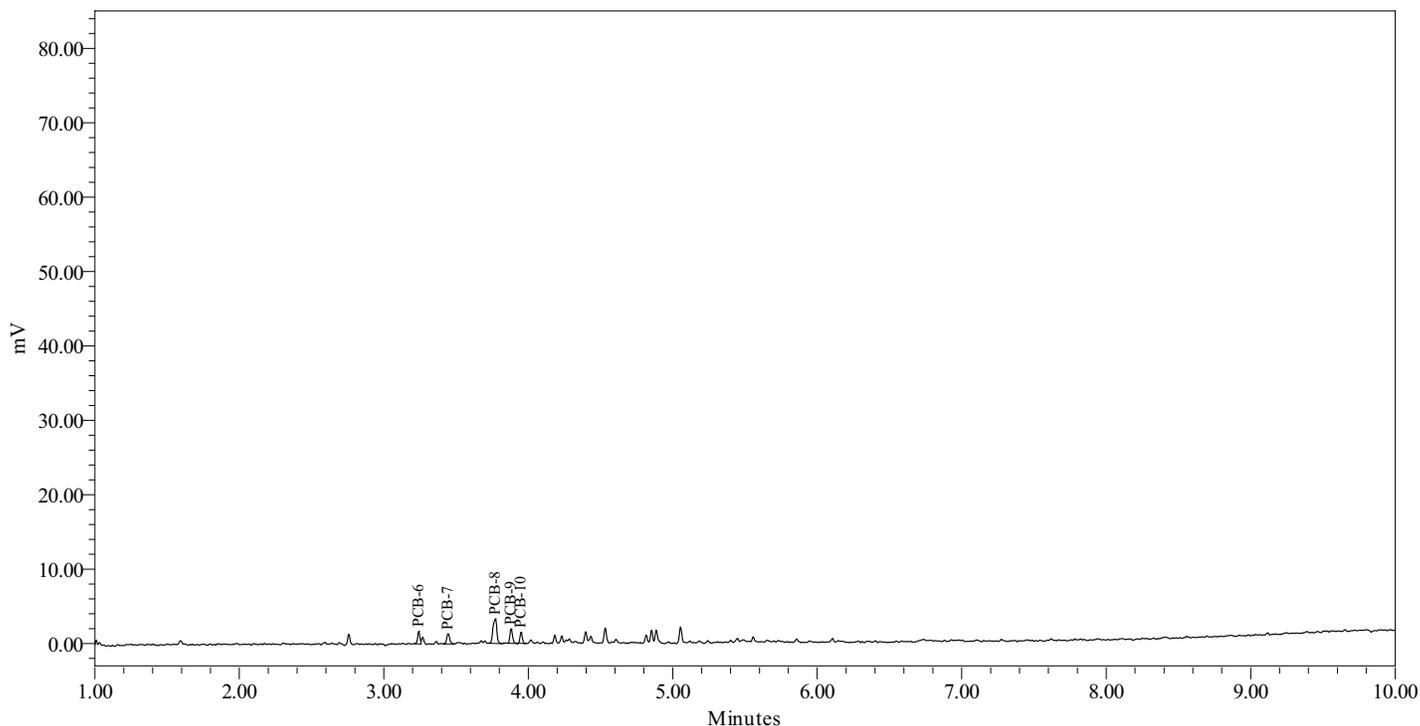
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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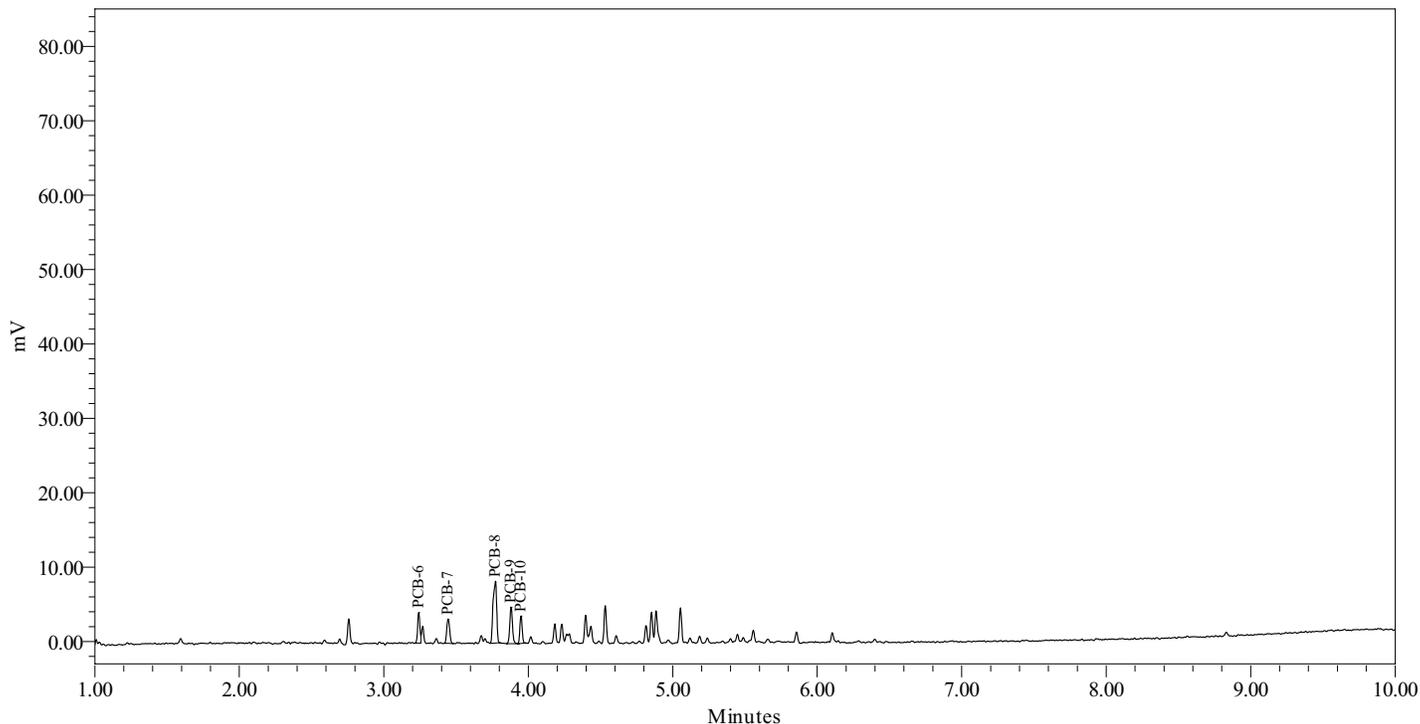
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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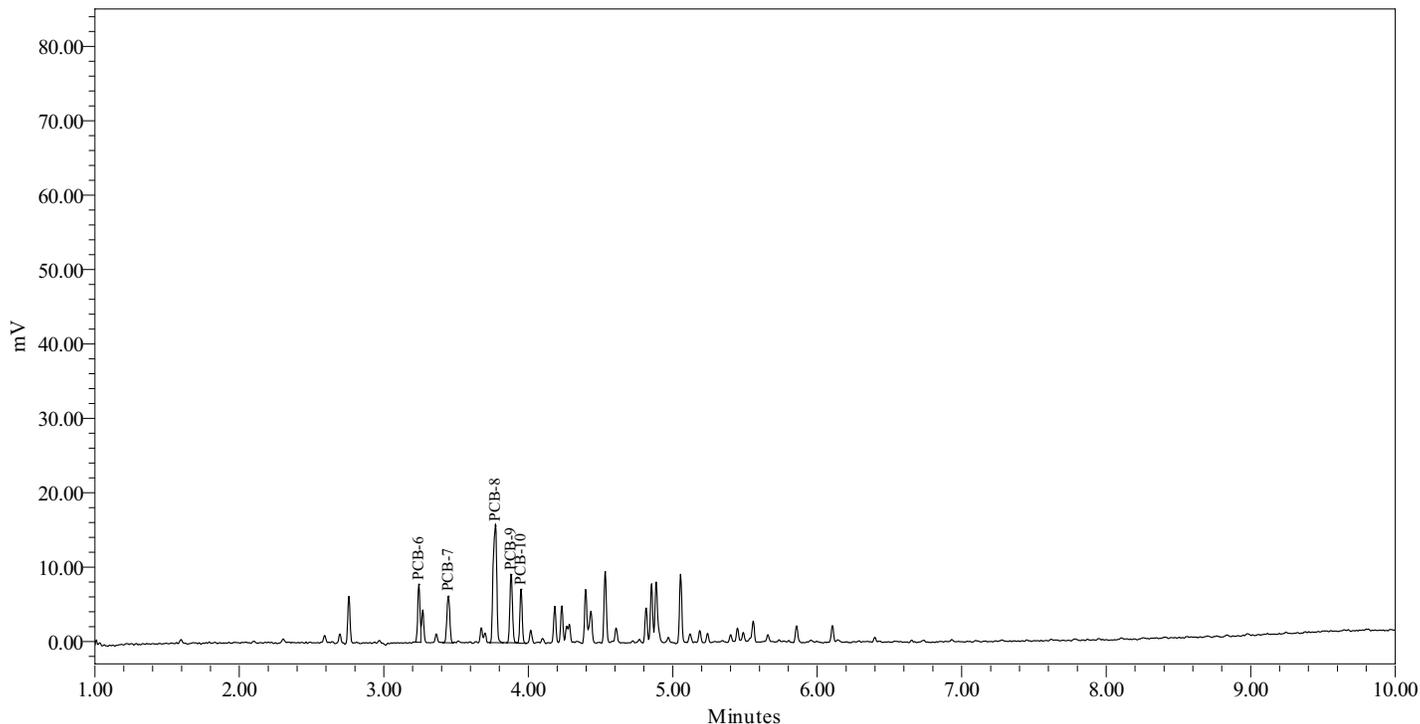
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

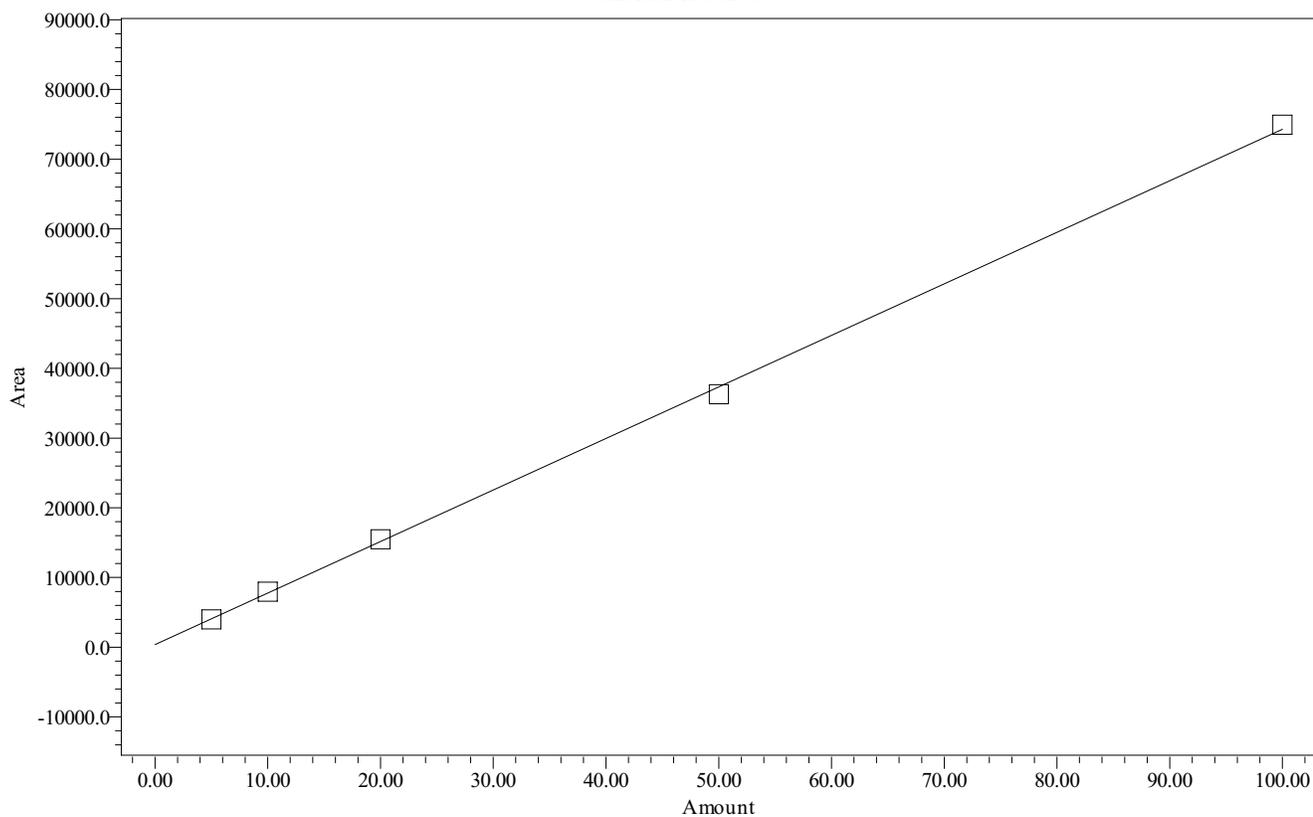
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

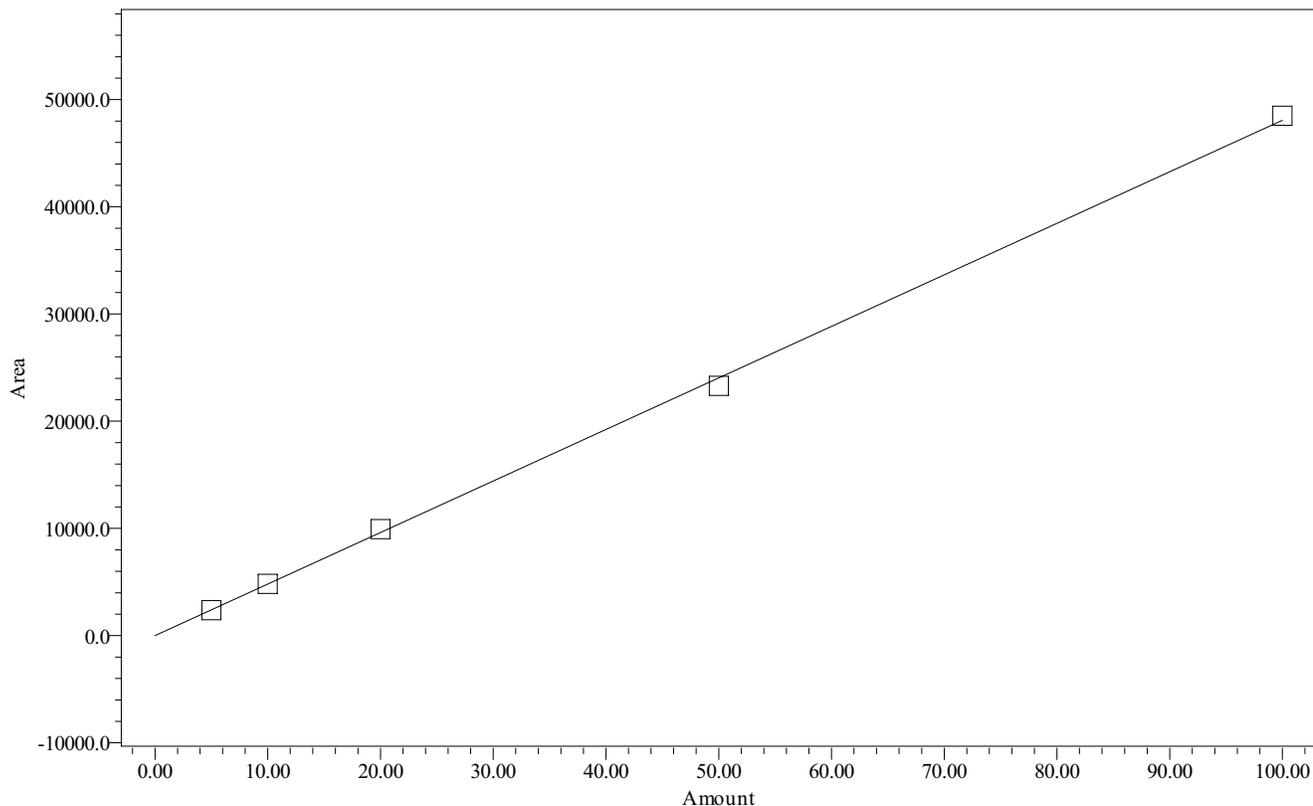
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

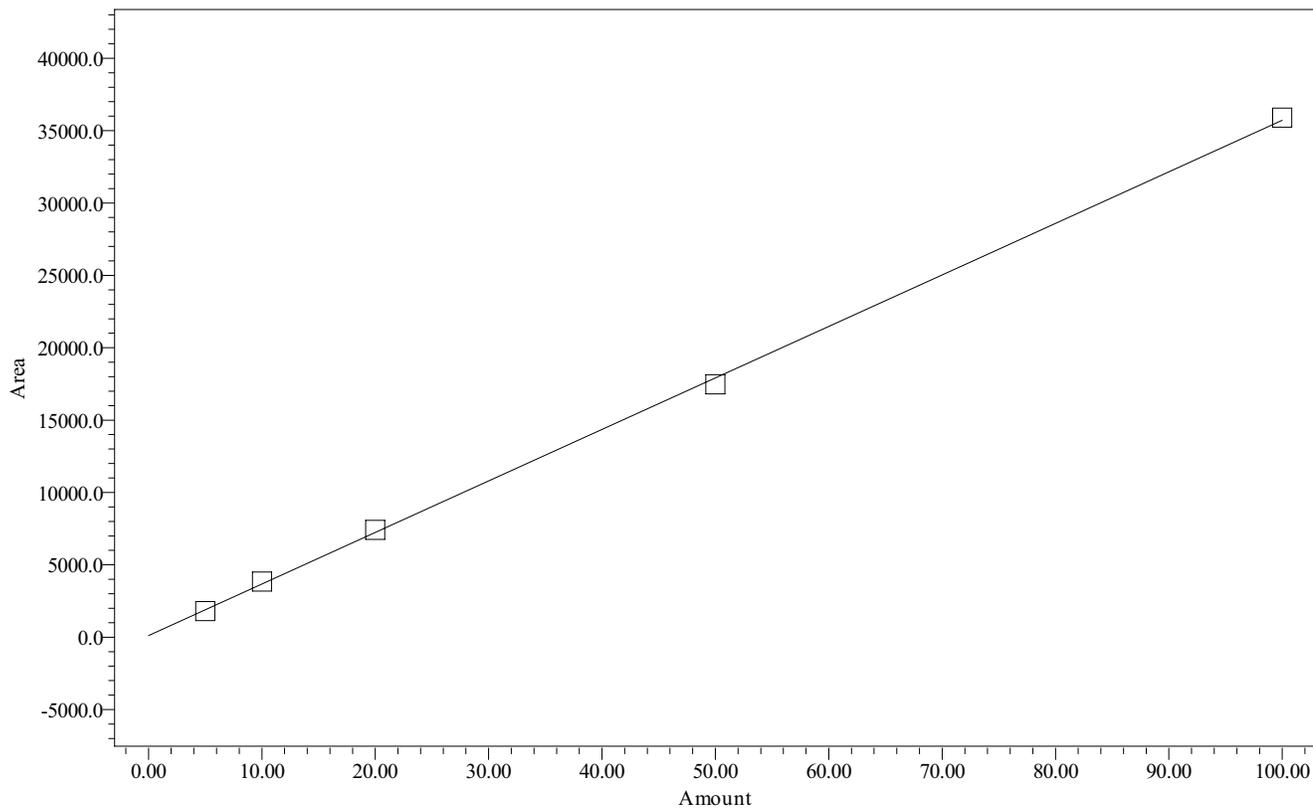
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00          | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00         | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00         | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00         | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00        | 35901    | 100.5       | 0.529       | No     | No     |

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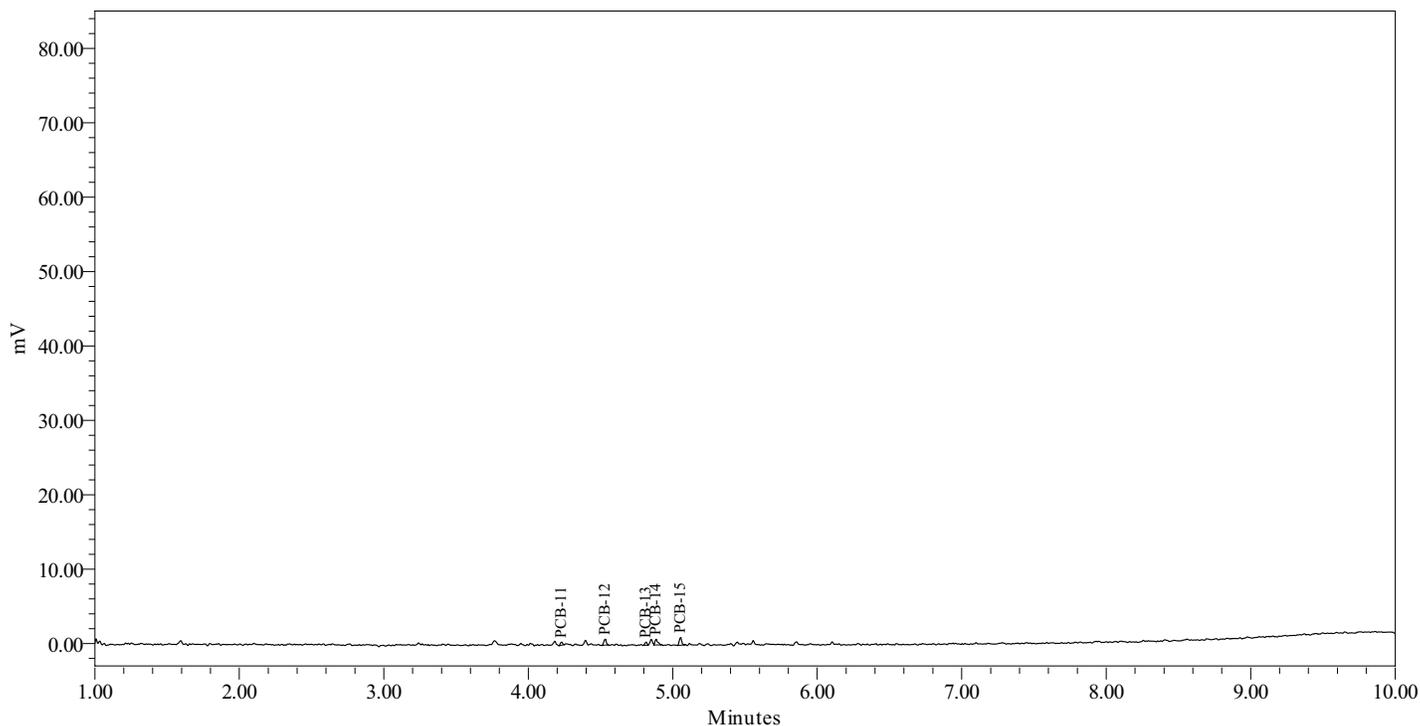
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.229          | bb               | 444           |
| 2 | PCB-12    | 4.532          | bb               | 904           |
| 3 | PCB-13    | 4.814          | bV               | 454           |
| 4 | PCB-14    | 4.884          | Vb               | 1018          |
| 5 | PCB-15    | 5.053          | bb               | 1166          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 3986                | 5.000                |
| 2 | A1248-11/15 | 2376                | 5.000                |
| 3 | A1248-14/15 | 1802                | 5.000                |



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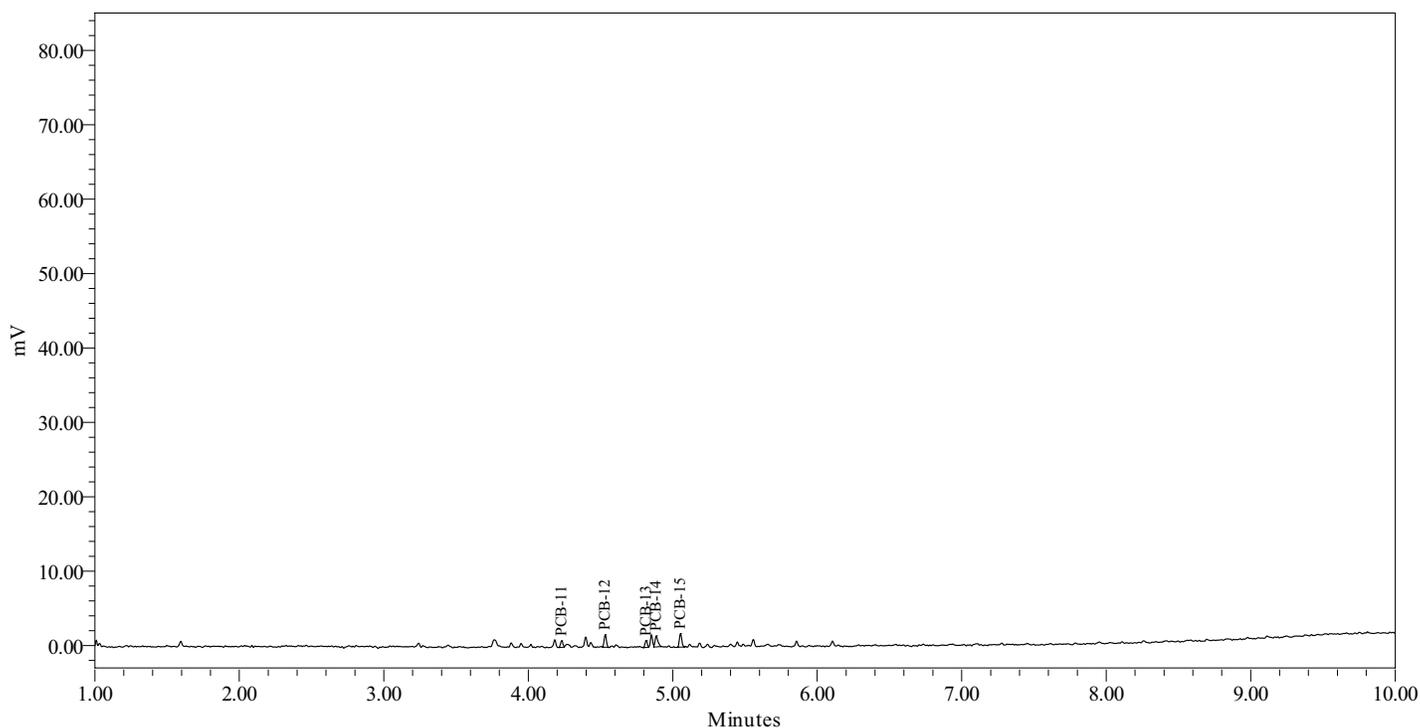
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.231          | bv               | 1011          |
| 2 | PCB-12    | 4.533          | bb               | 1808          |
| 3 | PCB-13    | 4.816          | bV               | 1021          |
| 4 | PCB-14    | 4.886          | Vb               | 2005          |
| 5 | PCB-15    | 5.054          | bb               | 2102          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 7948                | 10.000               |
| 2 | A1248-11/15 | 4835                | 10.000               |
| 3 | A1248-14/15 | 3841                | 10.000               |



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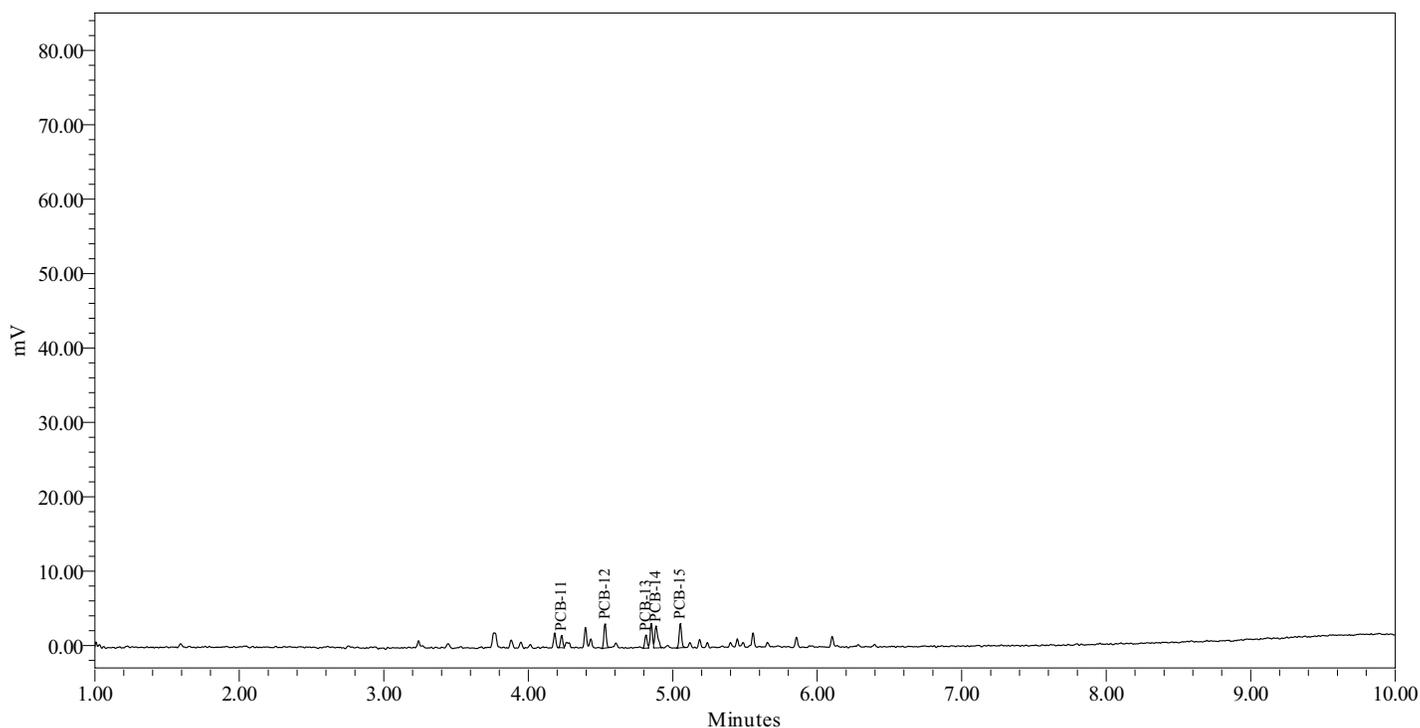
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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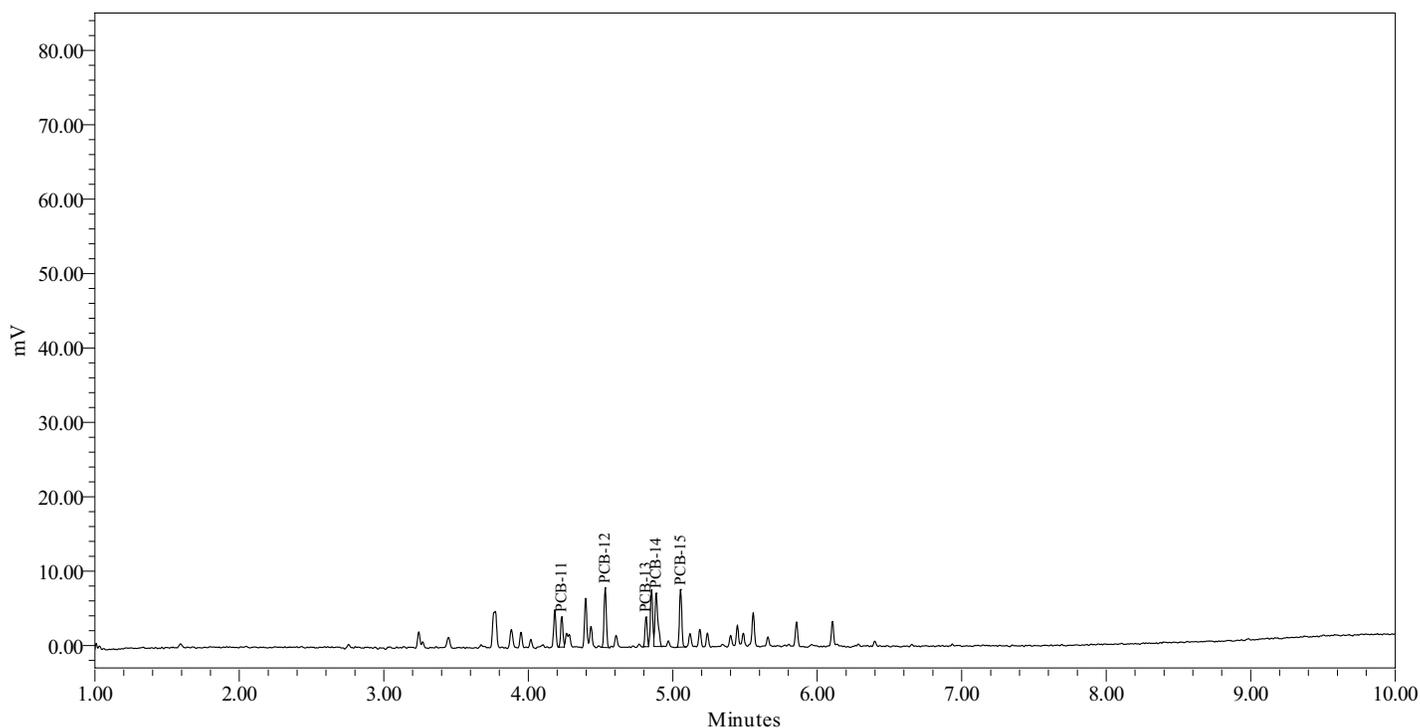
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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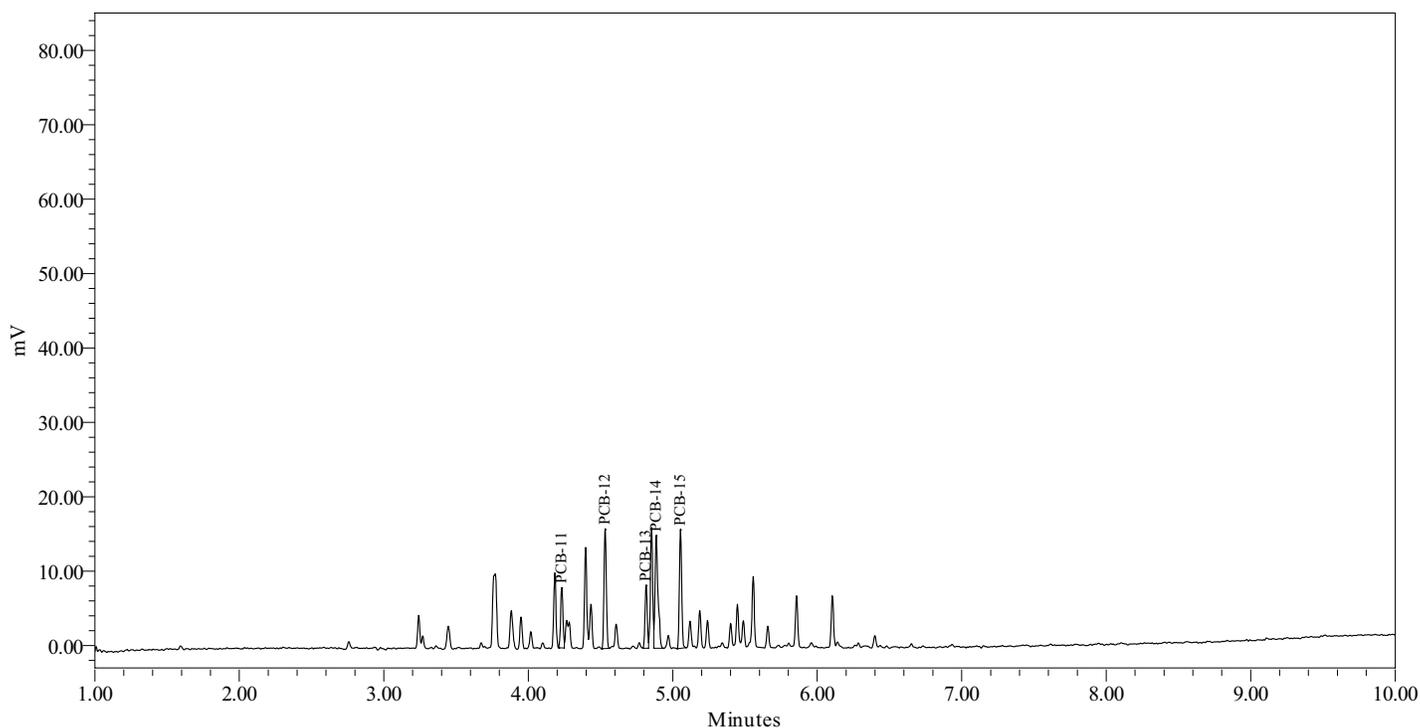
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

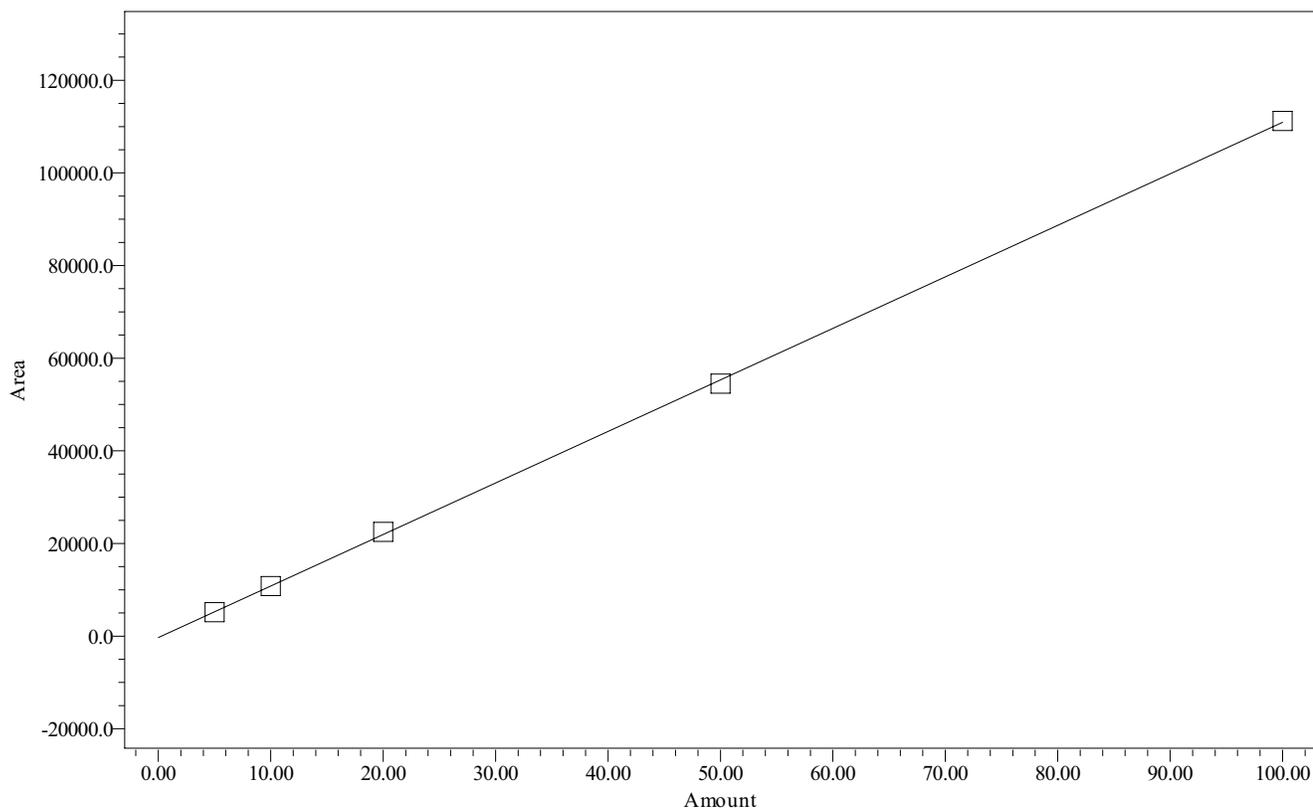
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

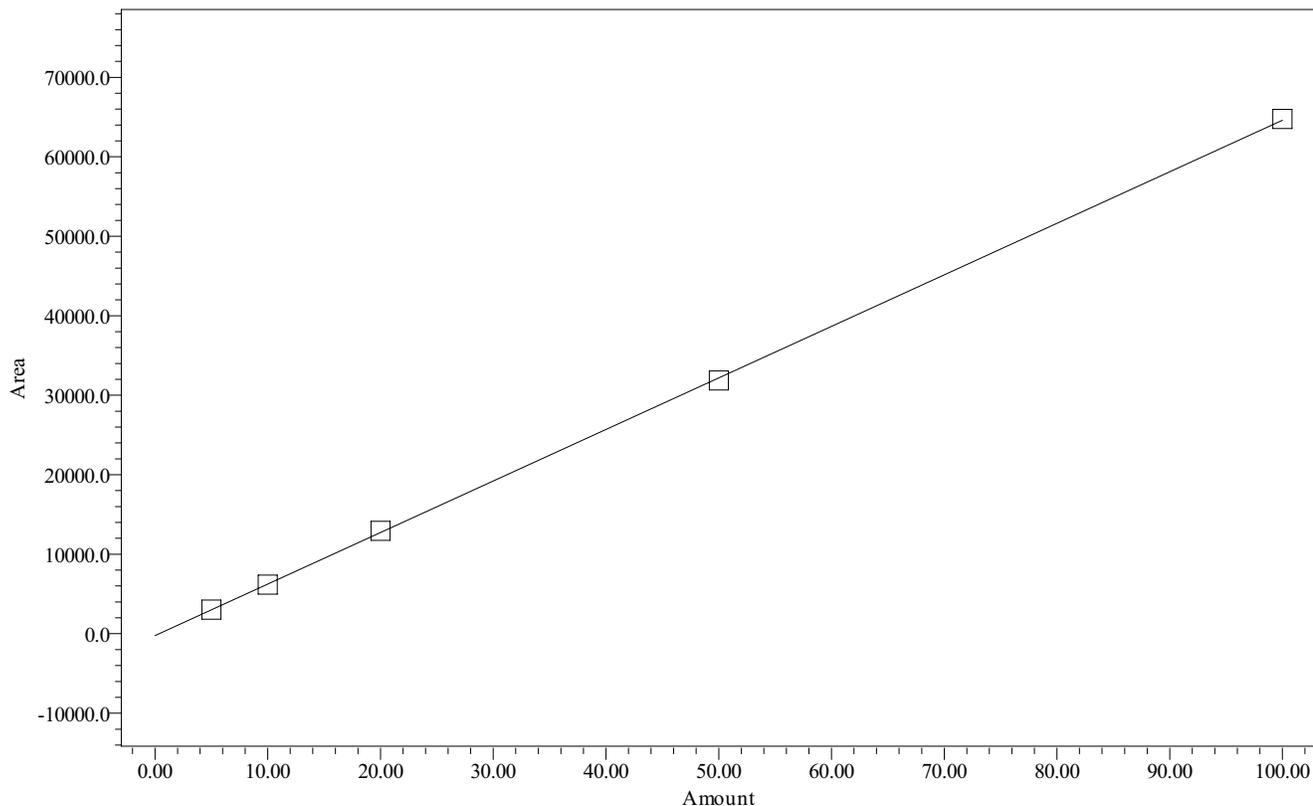
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

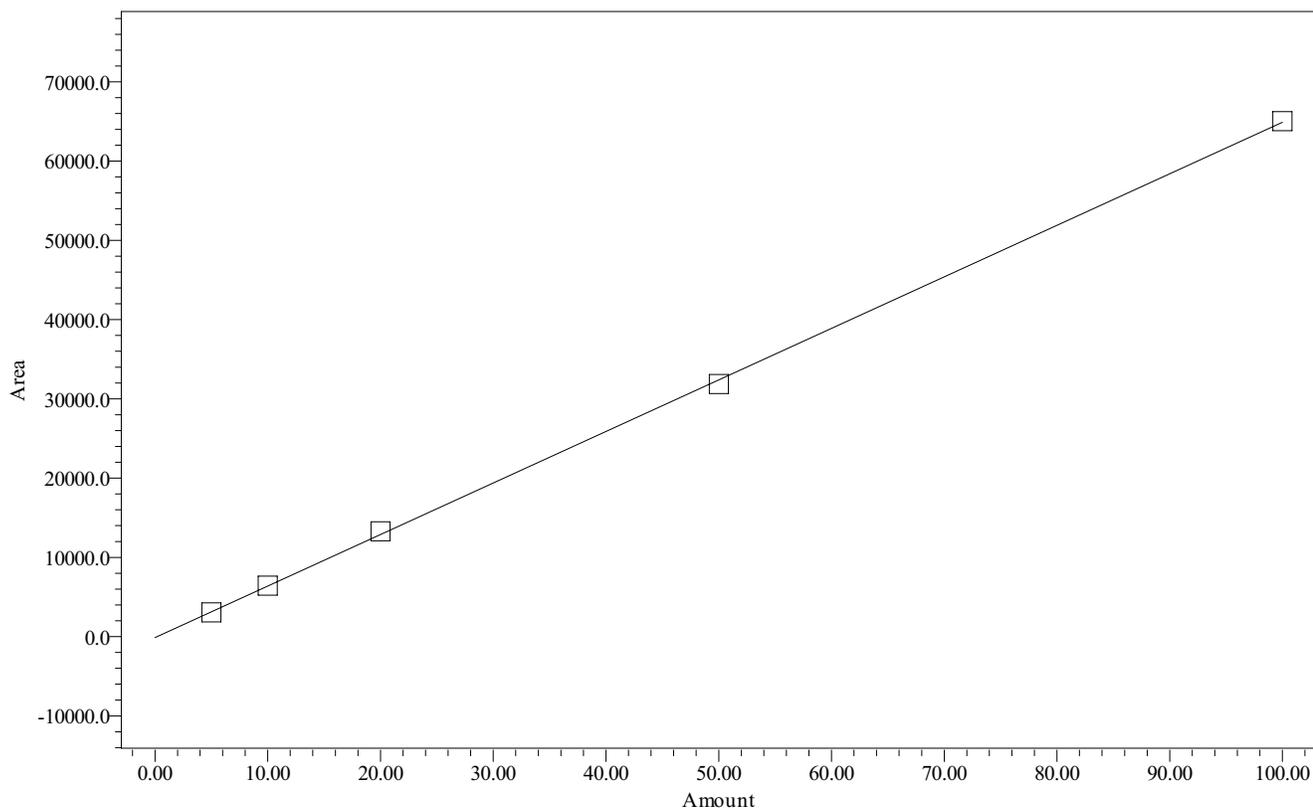
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

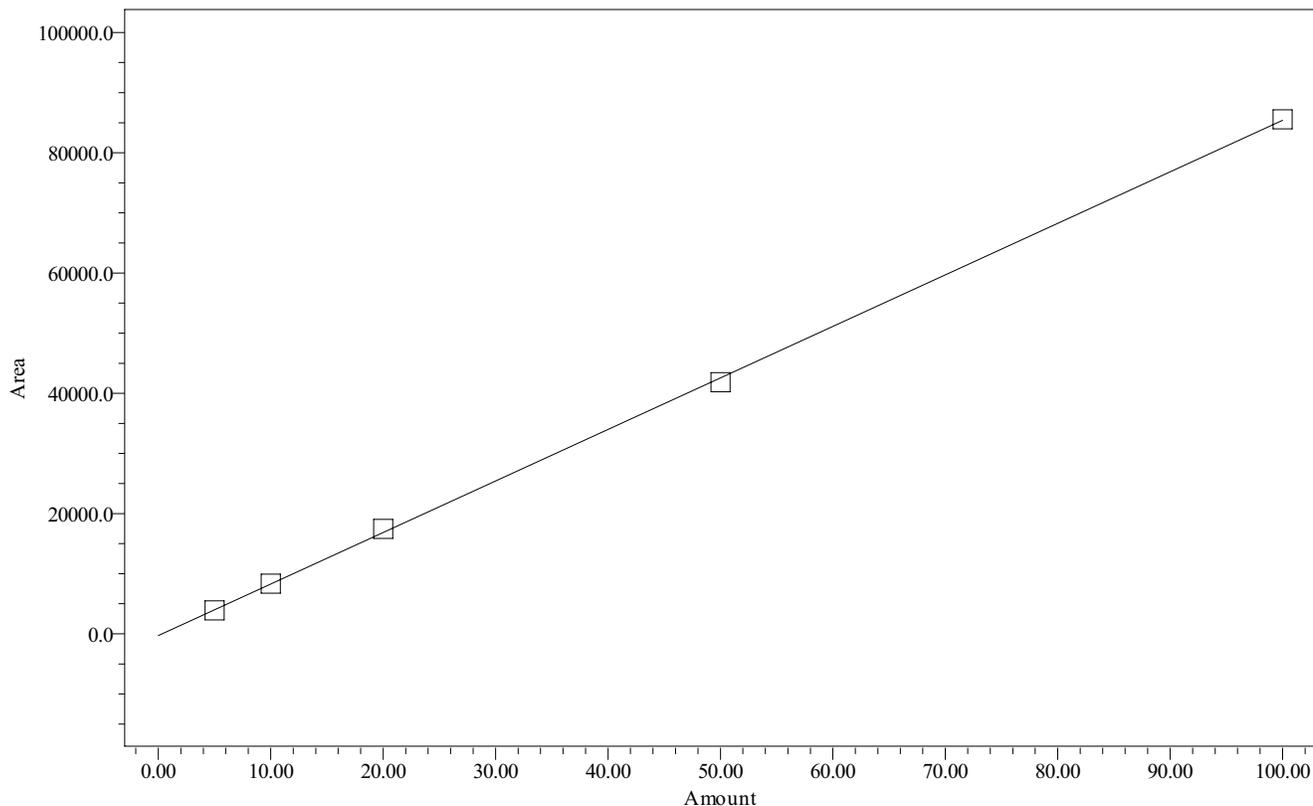
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

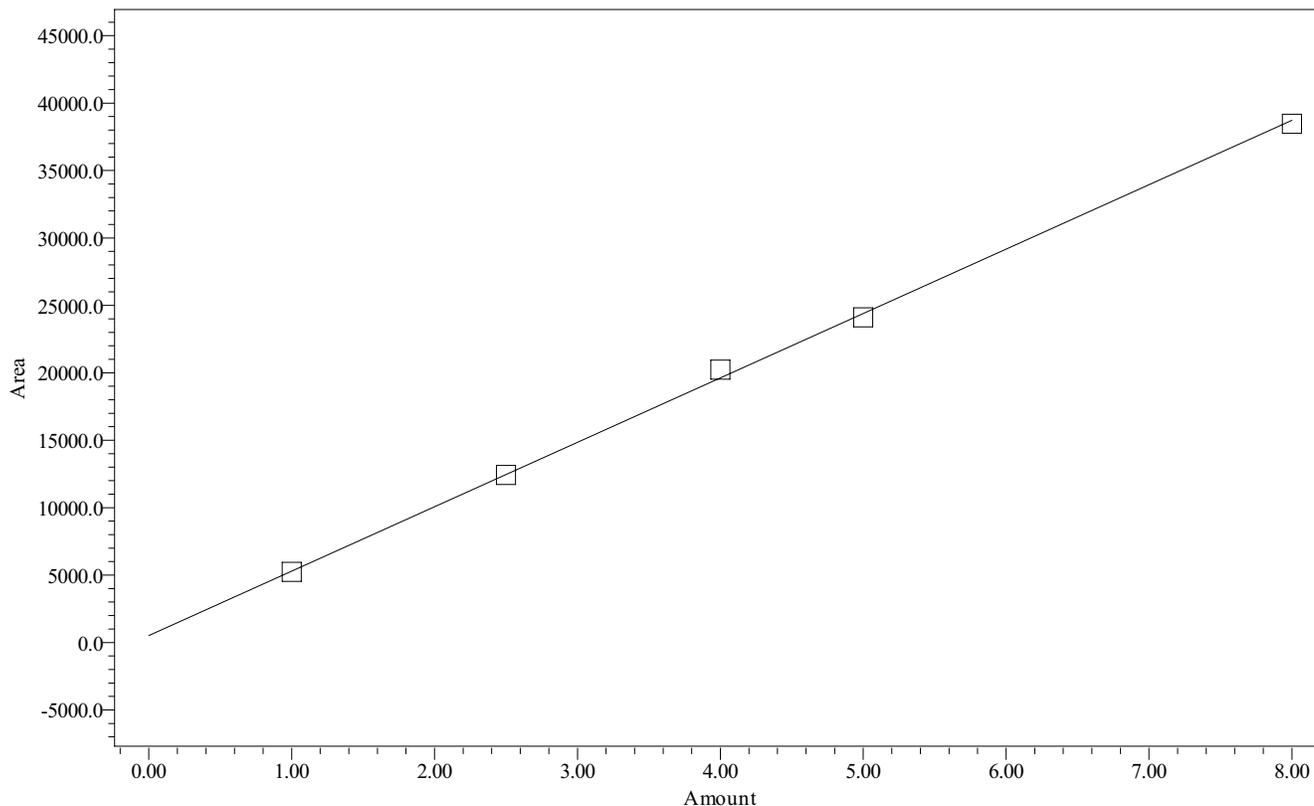
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

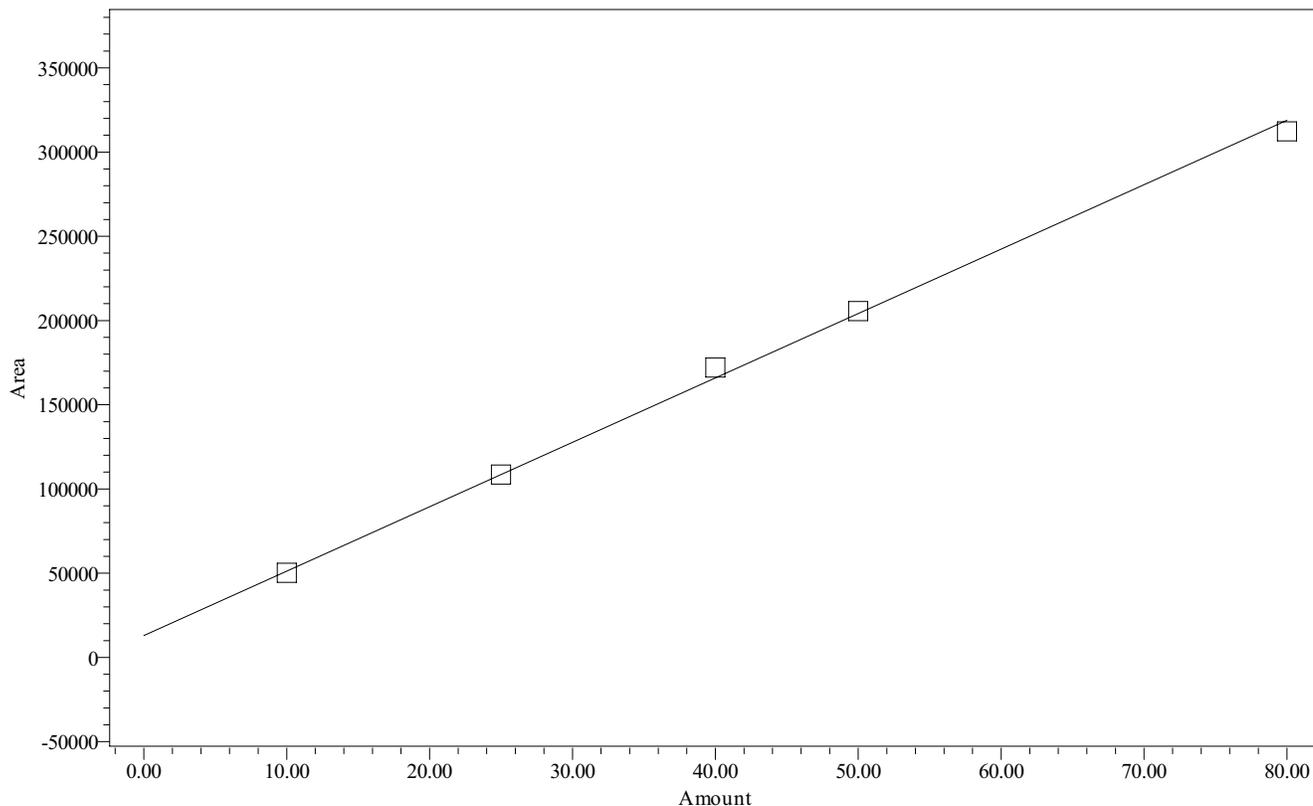
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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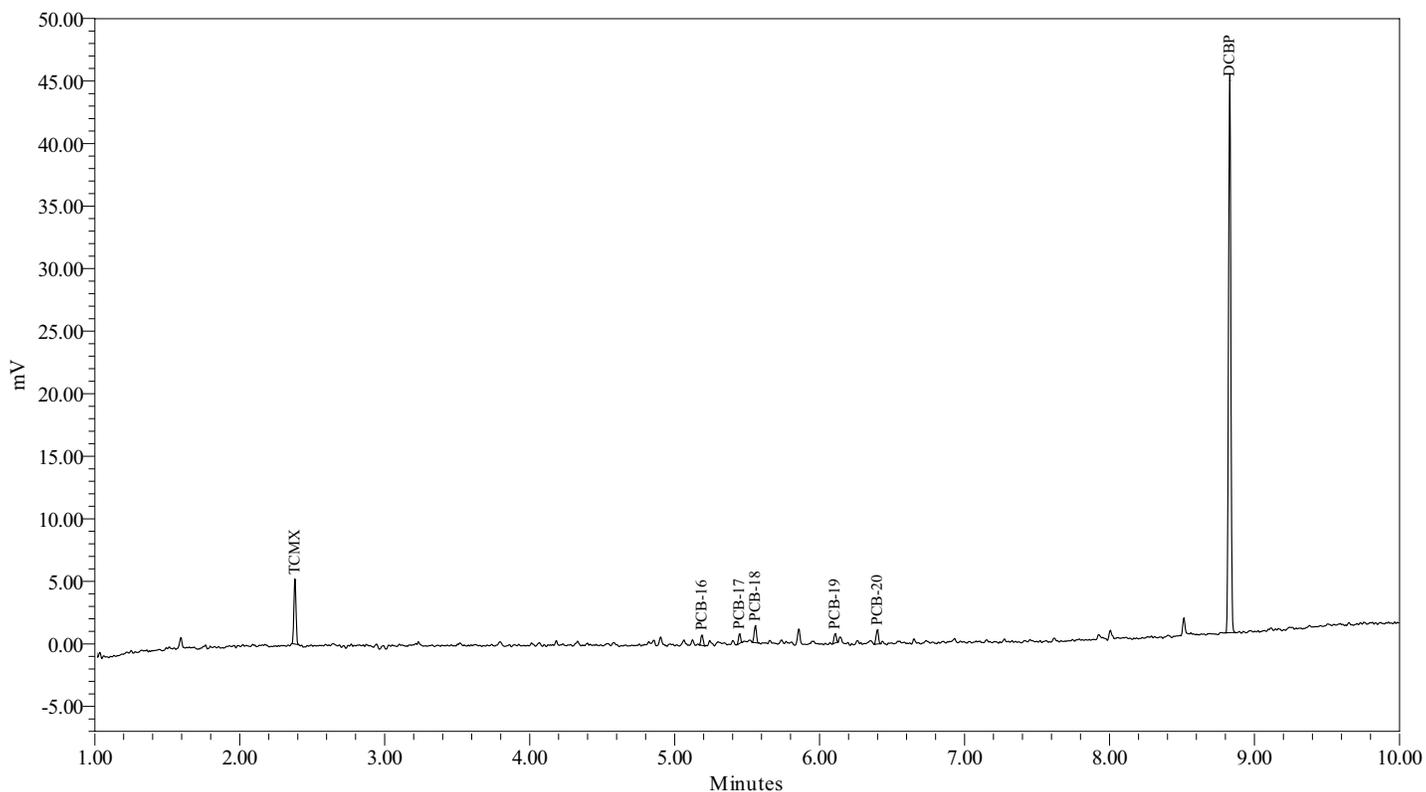
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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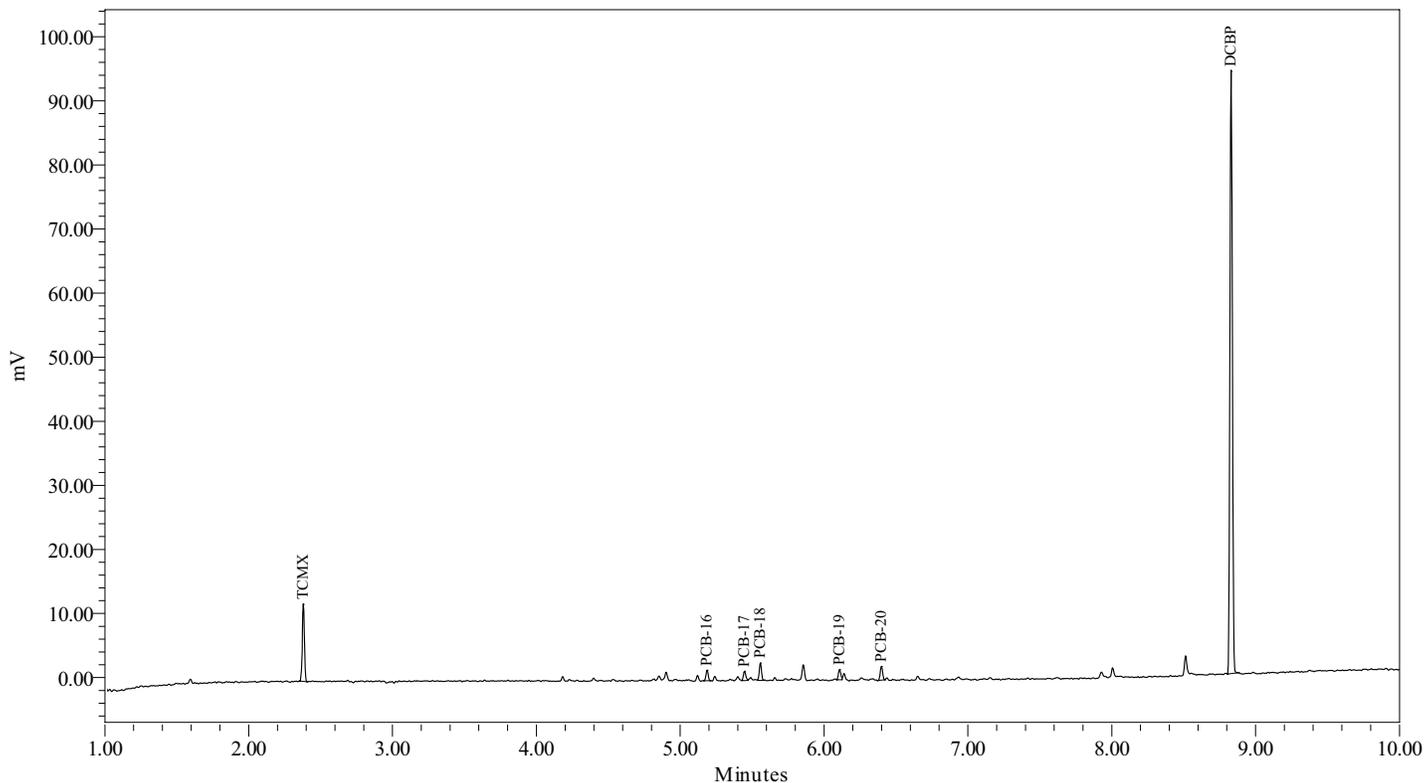
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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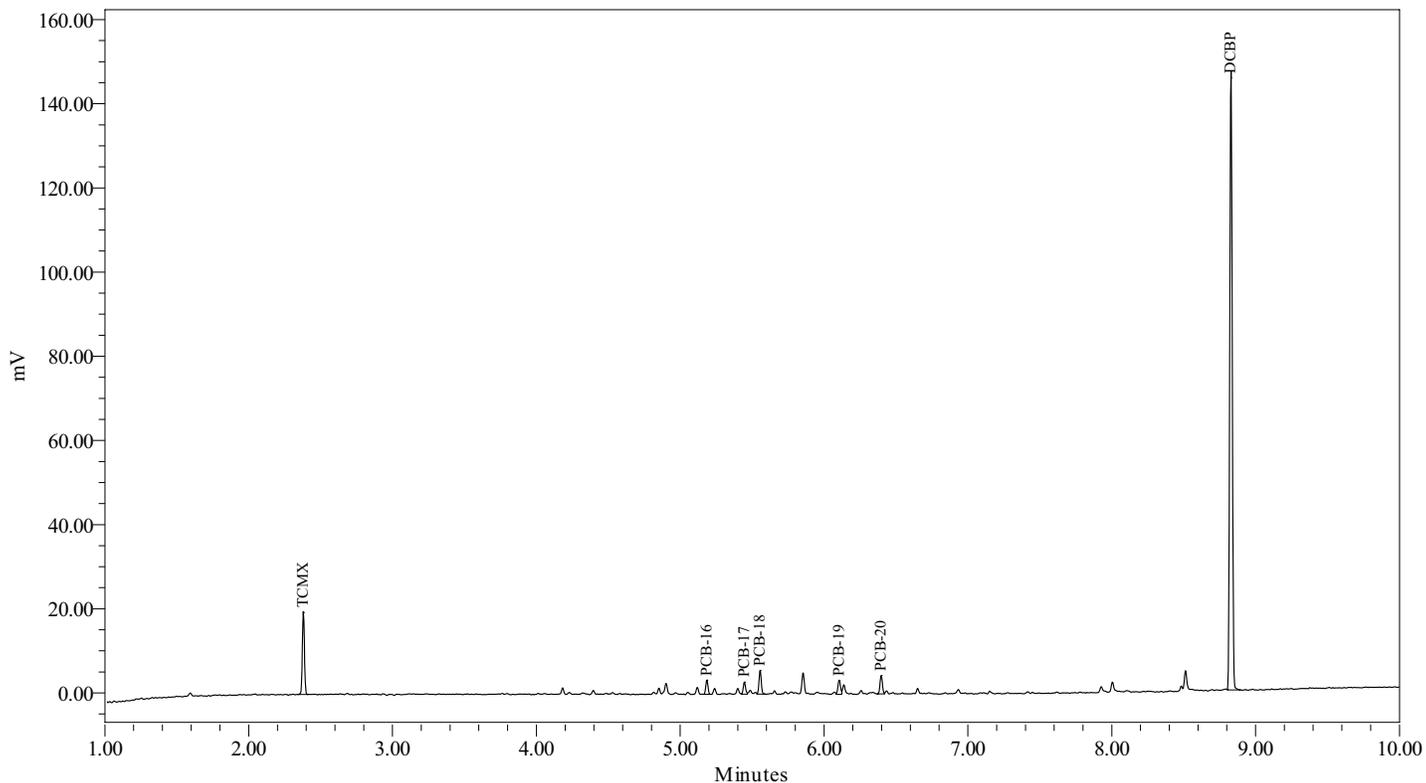
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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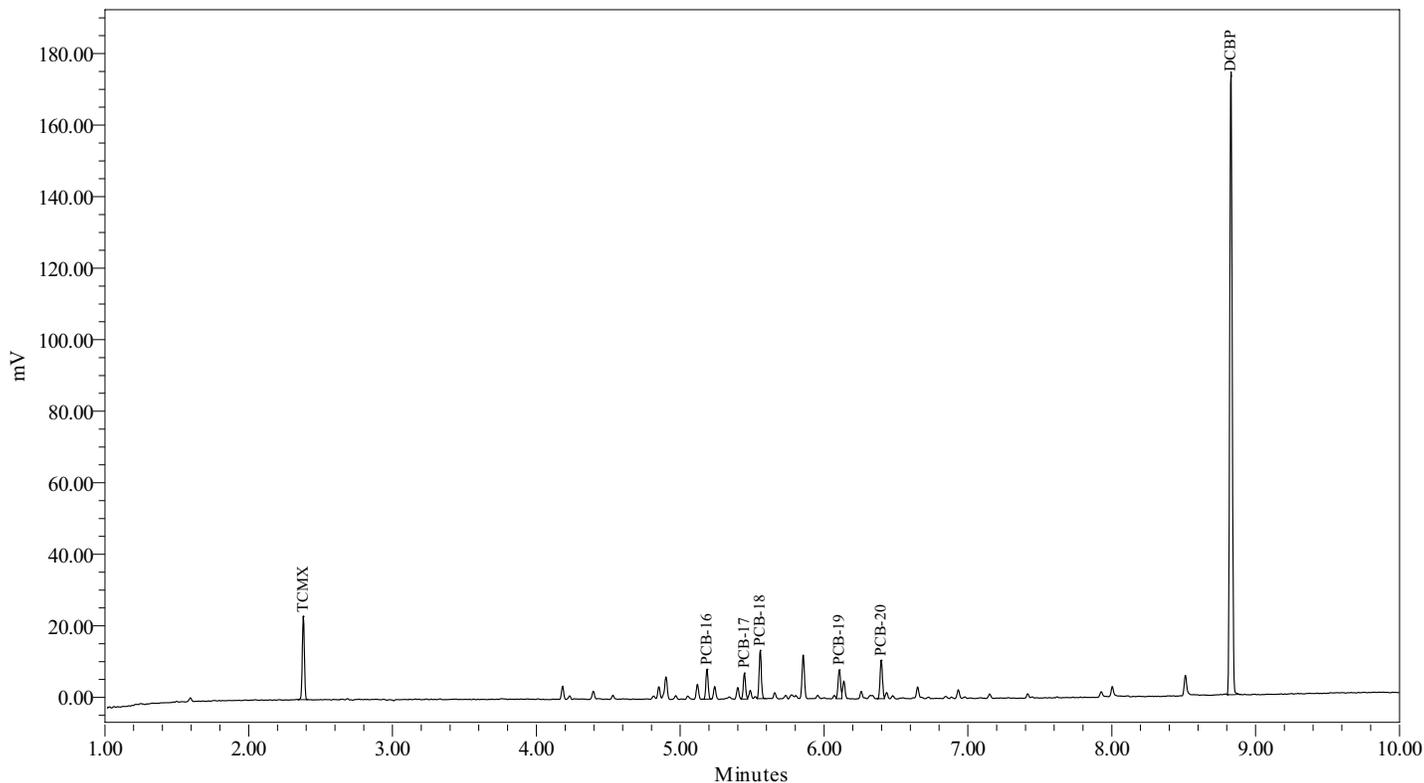
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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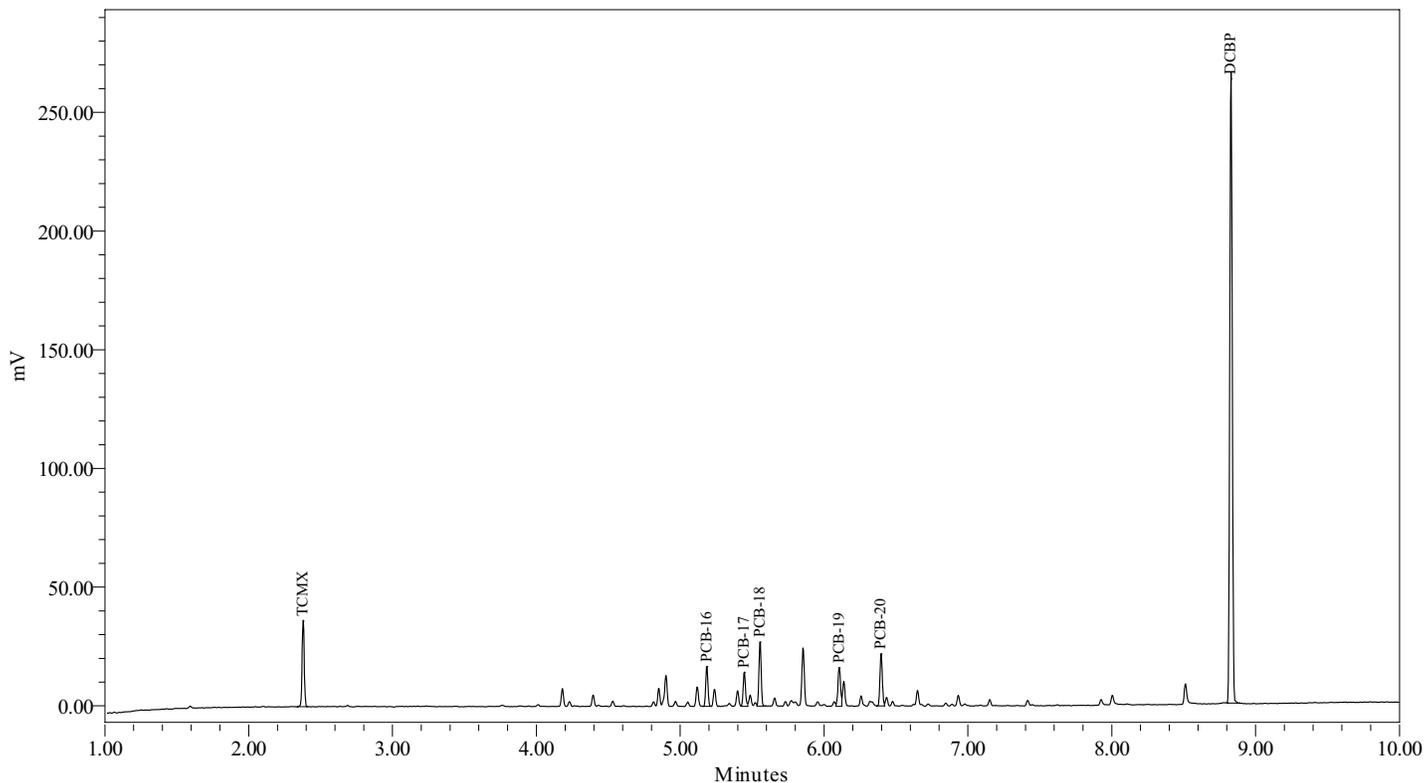
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

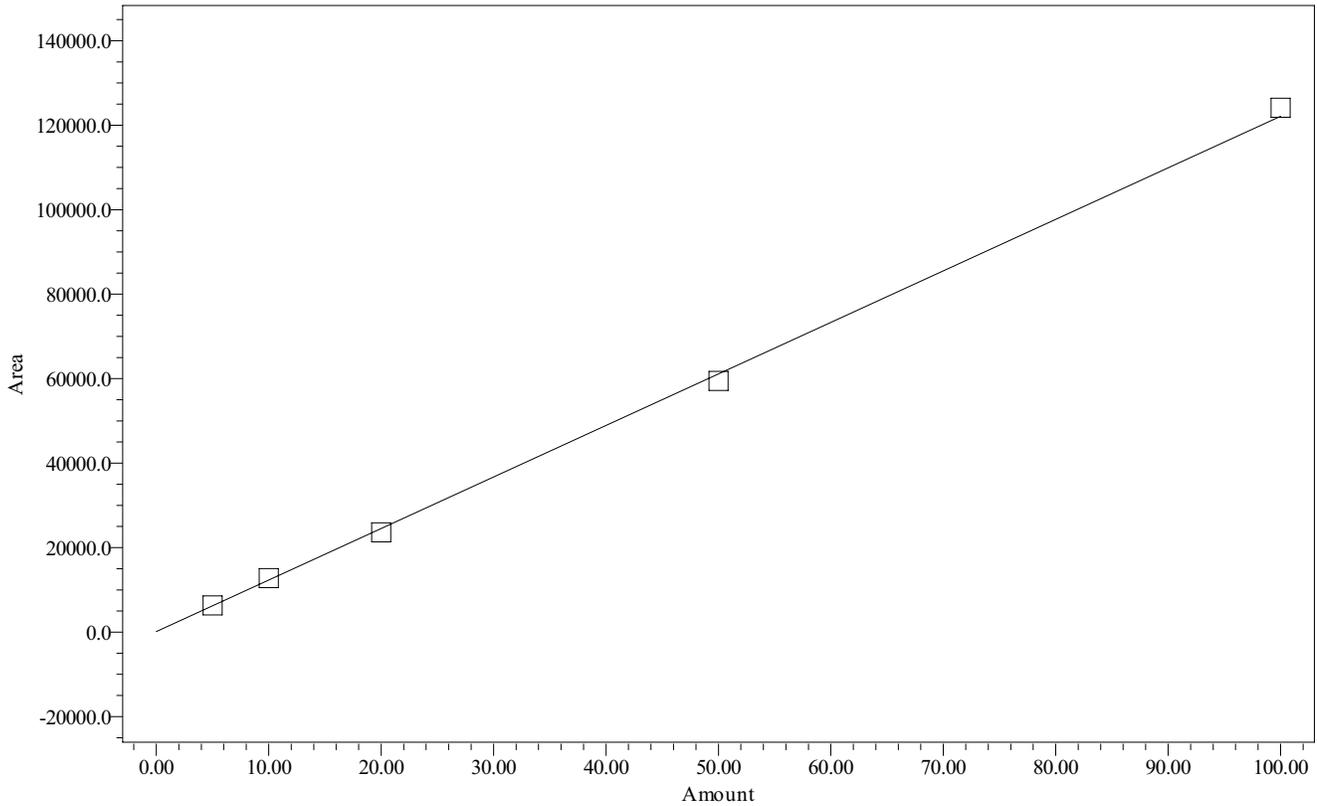
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

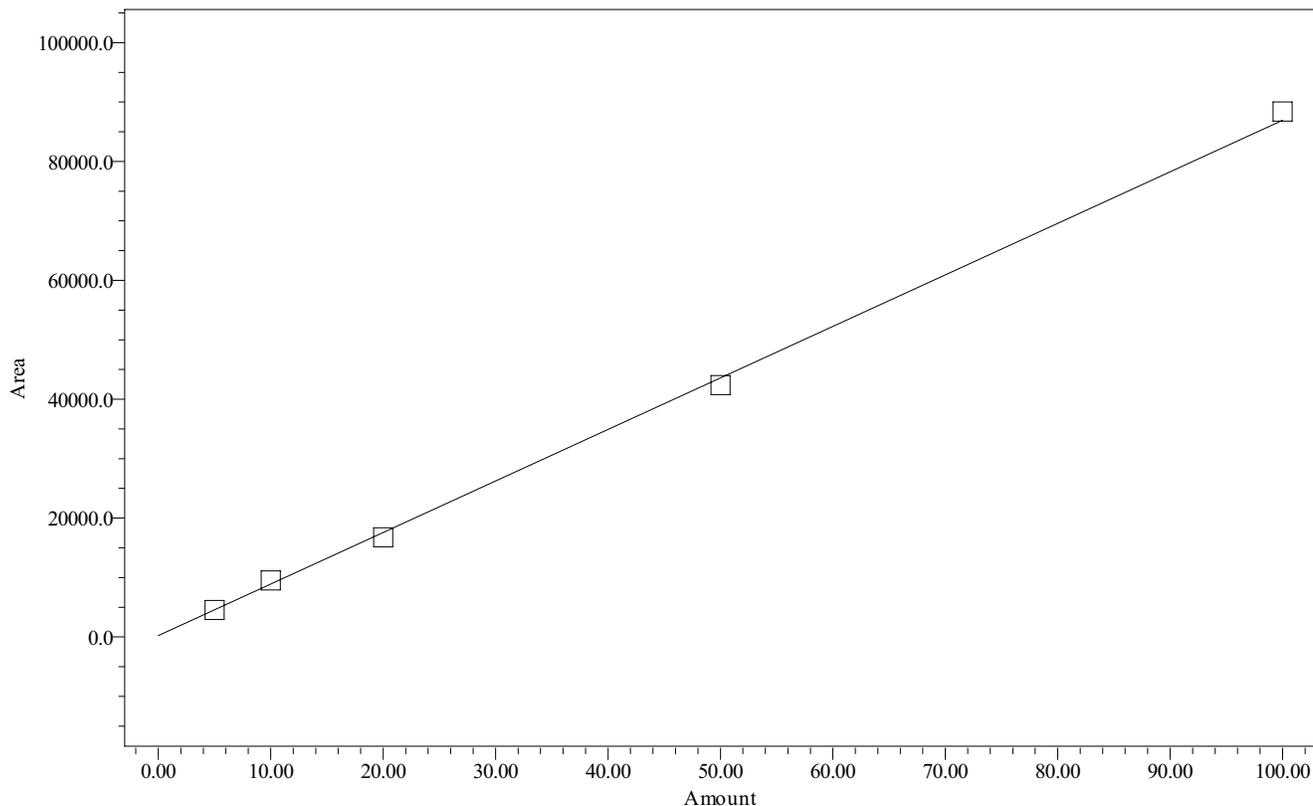
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

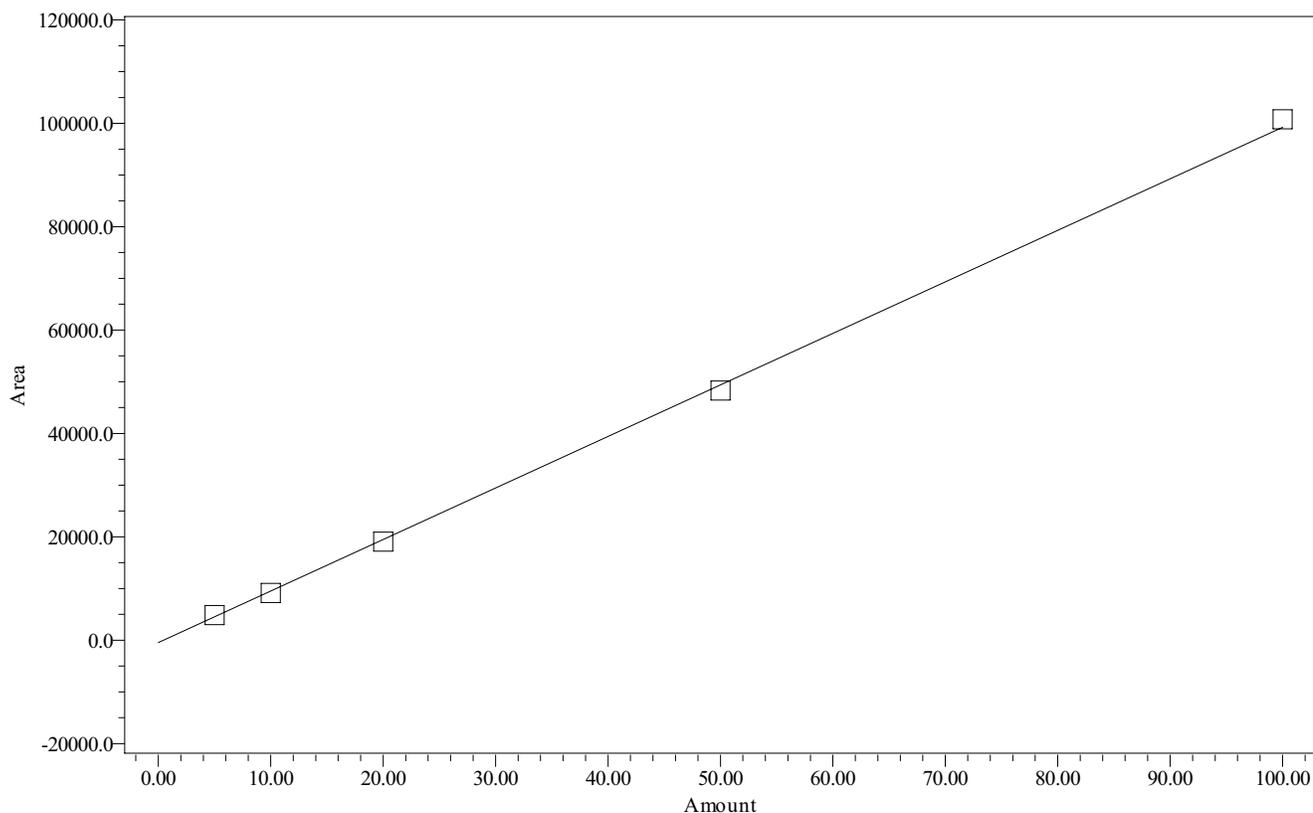
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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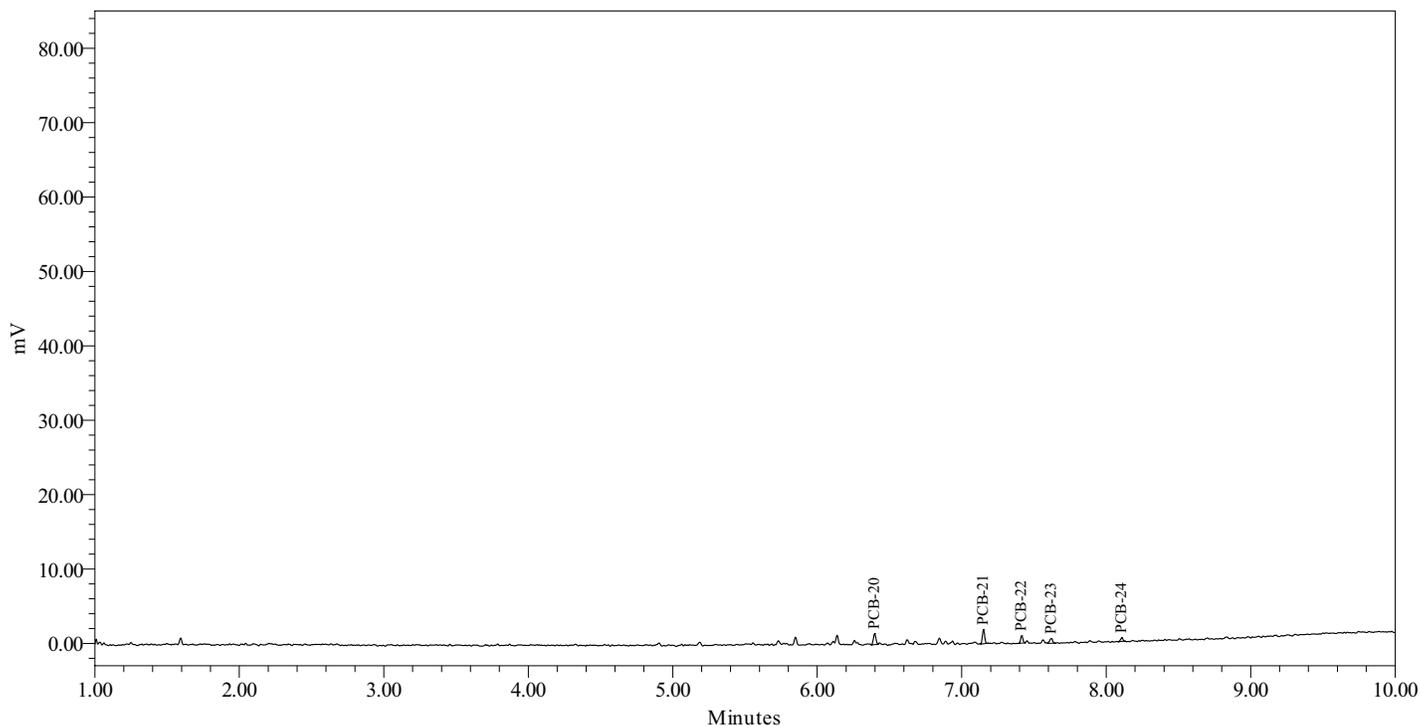
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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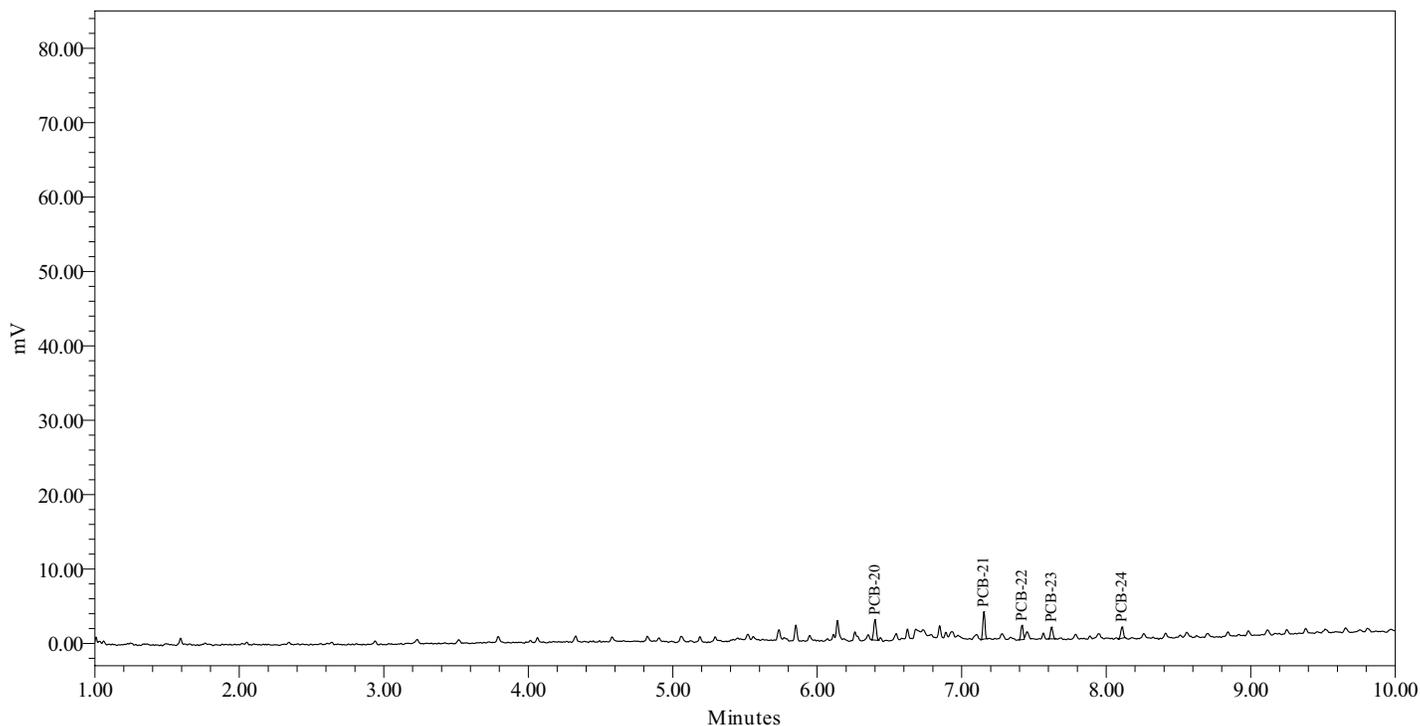
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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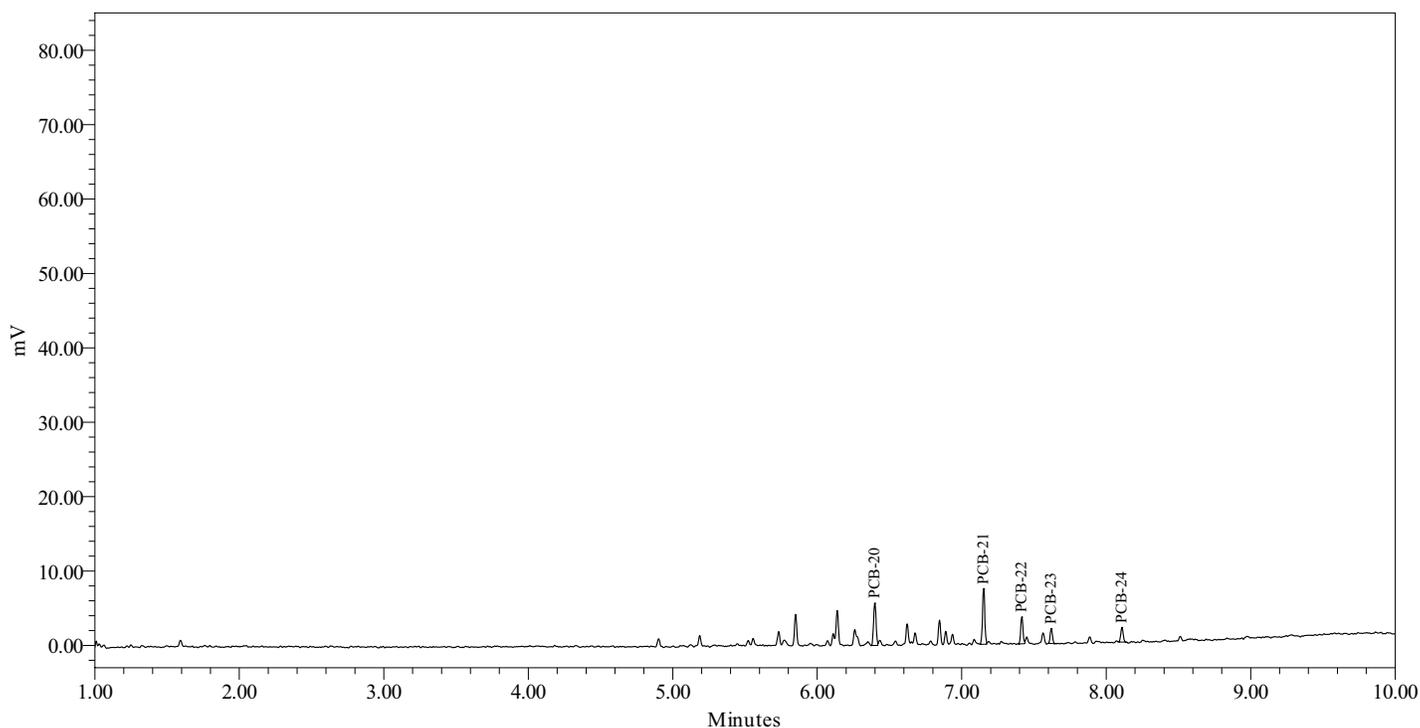
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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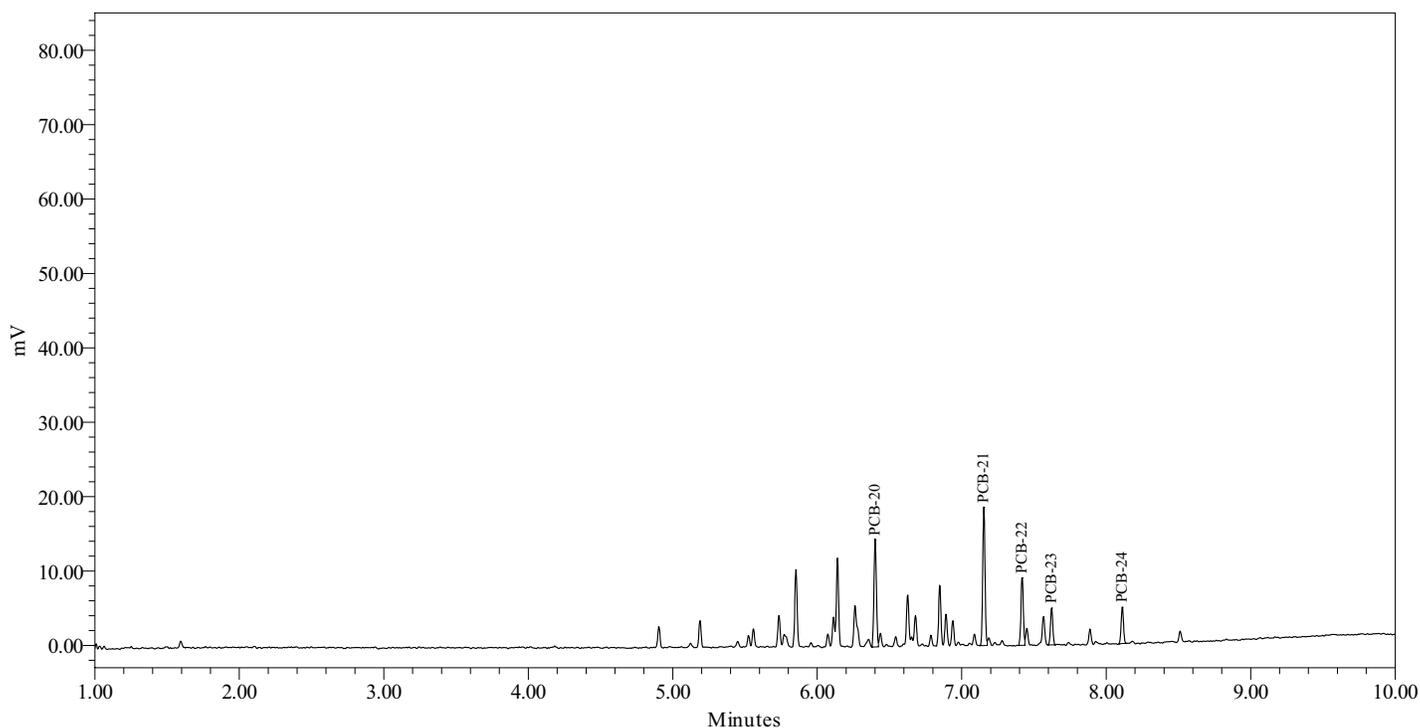
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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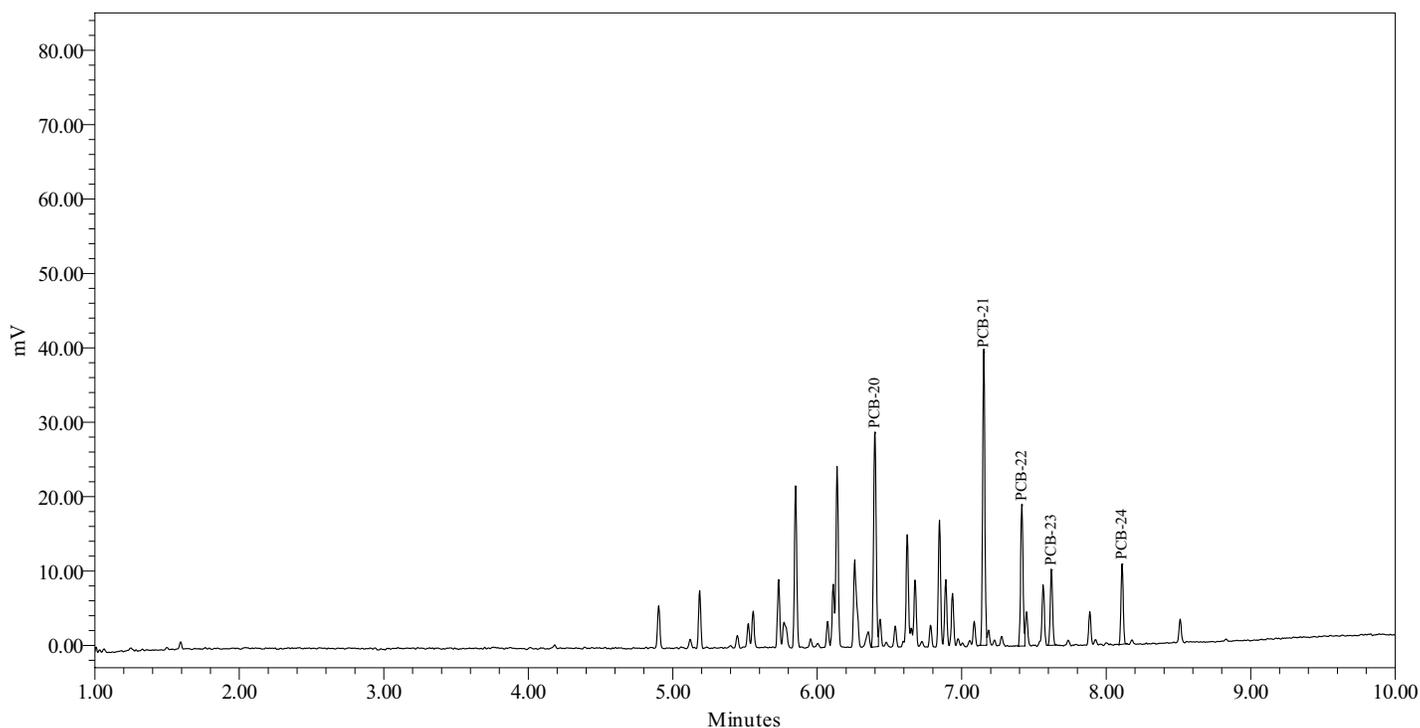
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

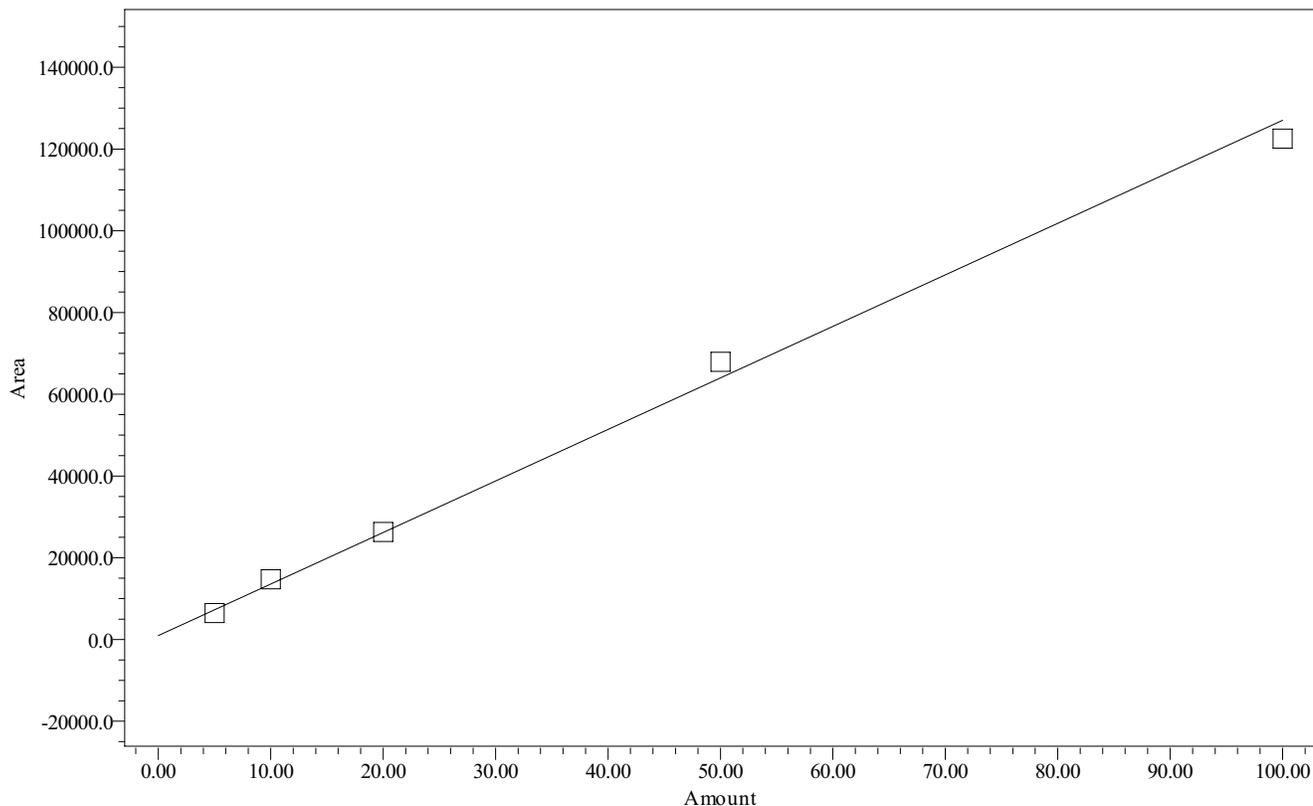
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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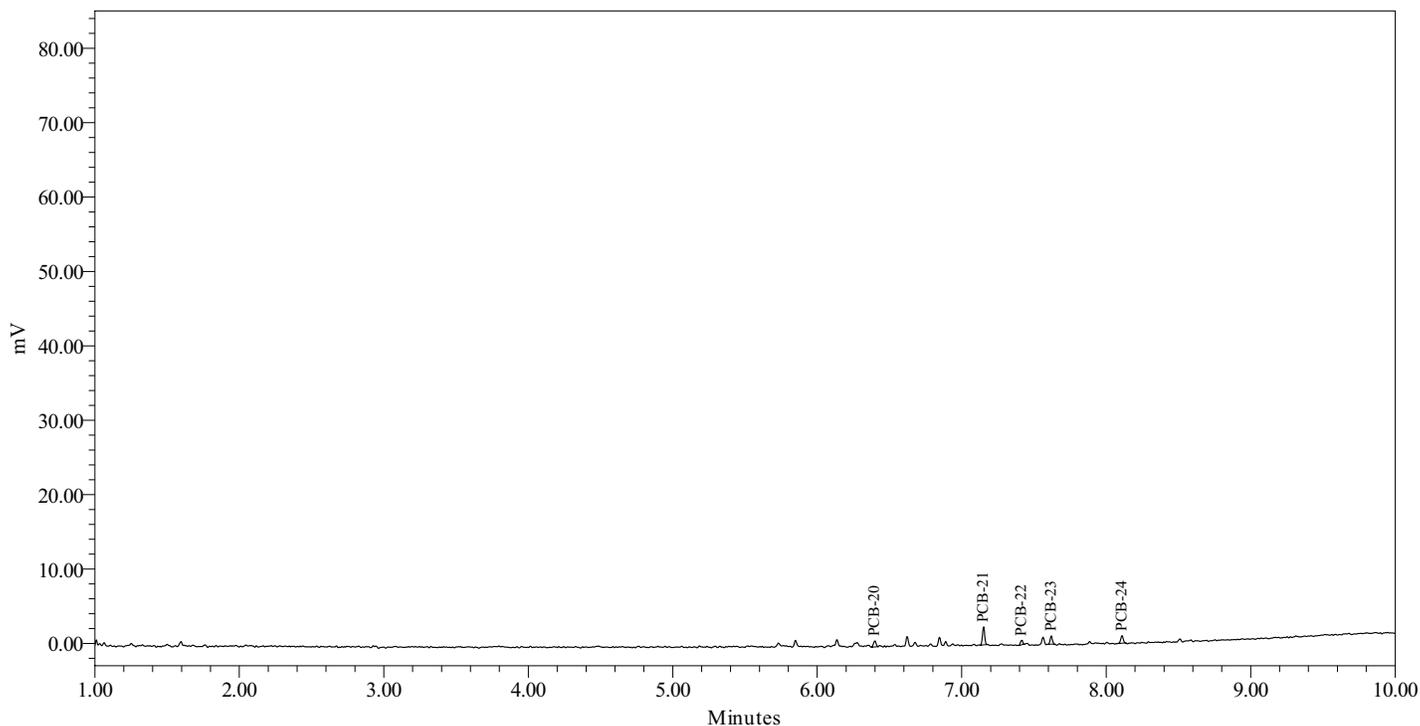
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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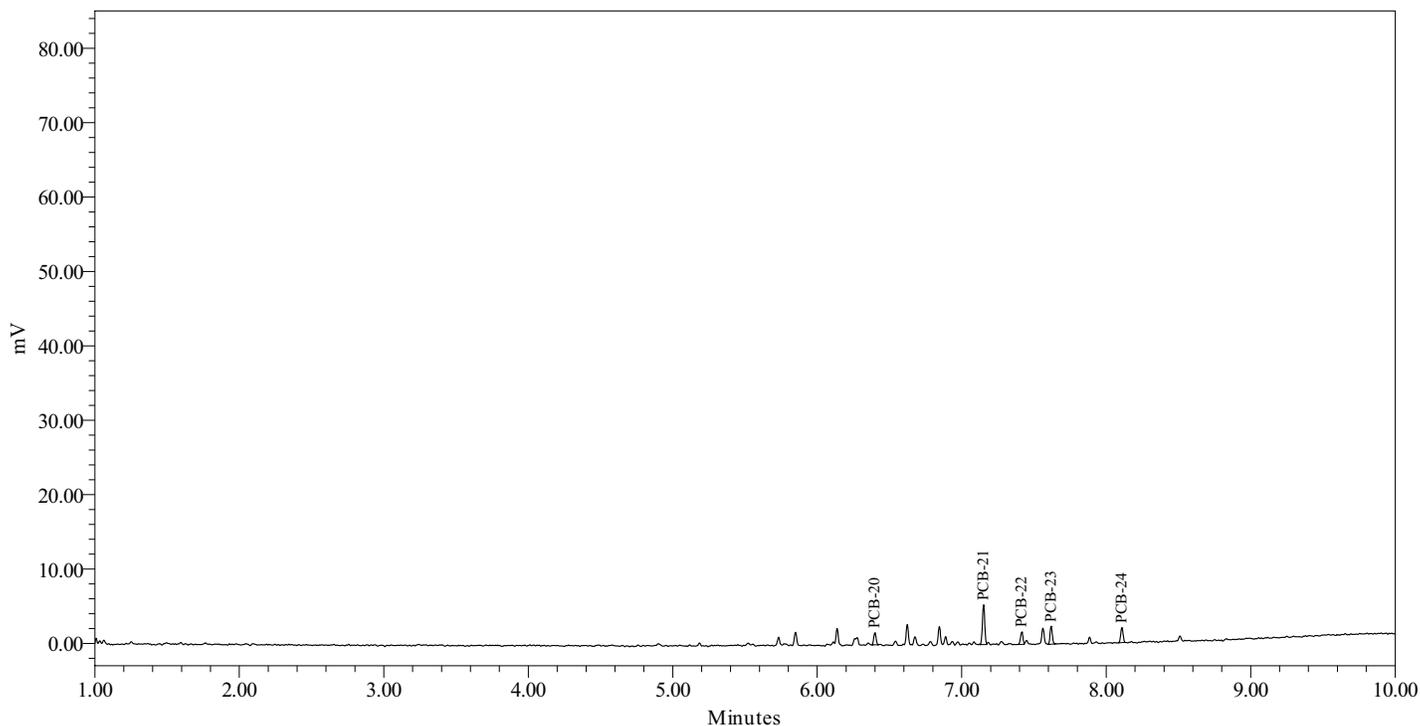
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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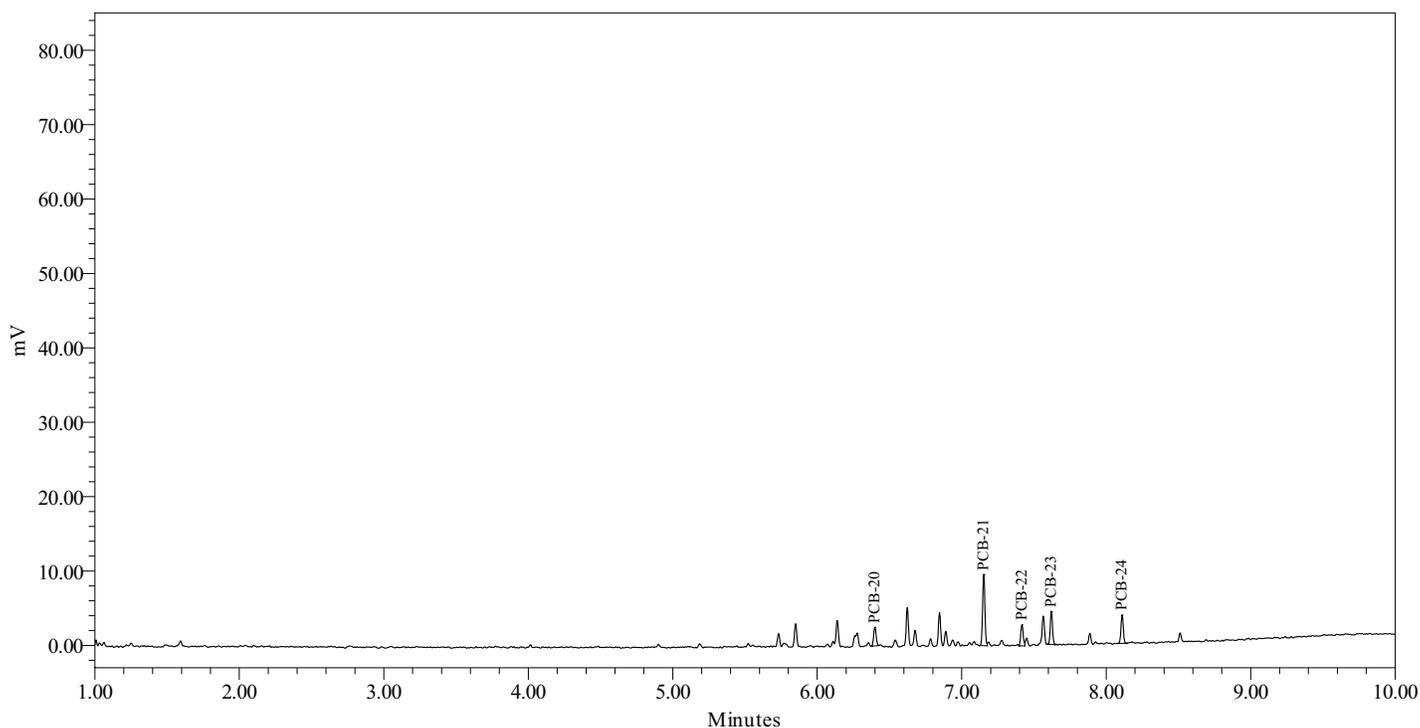
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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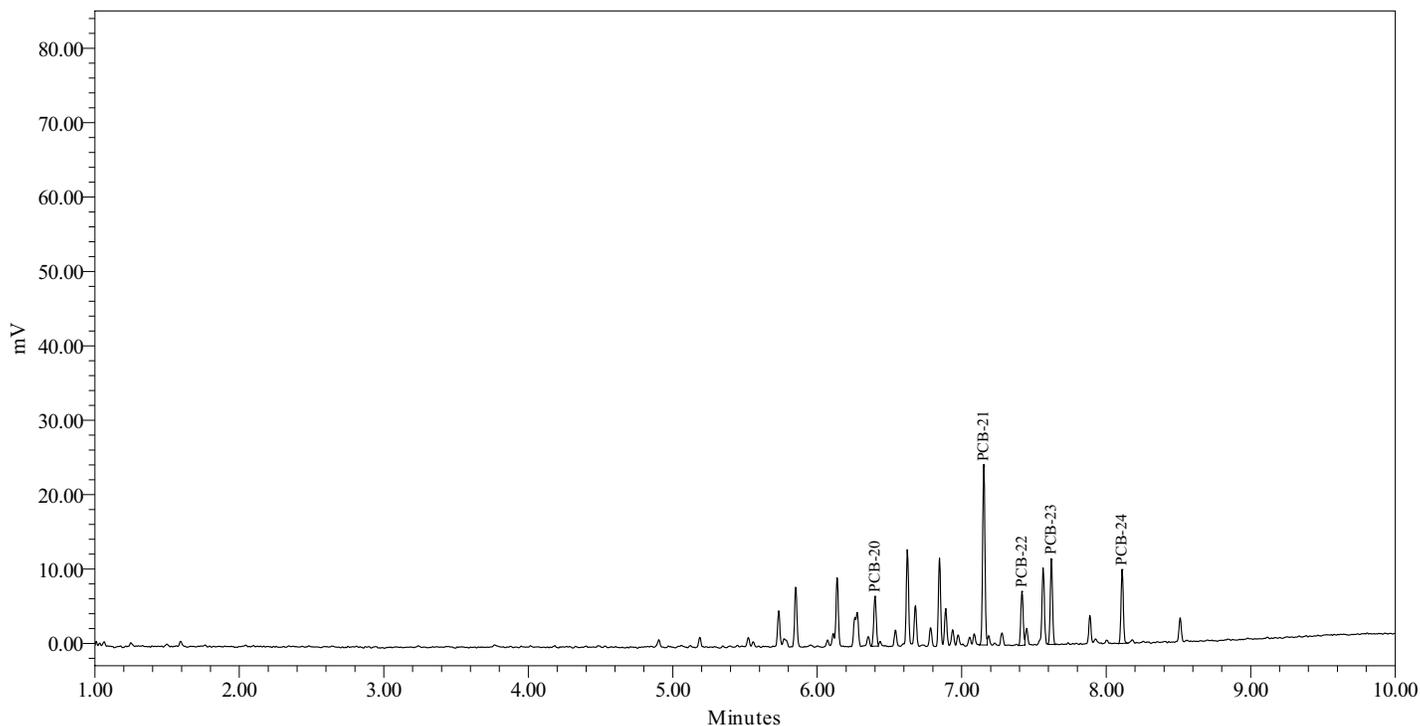
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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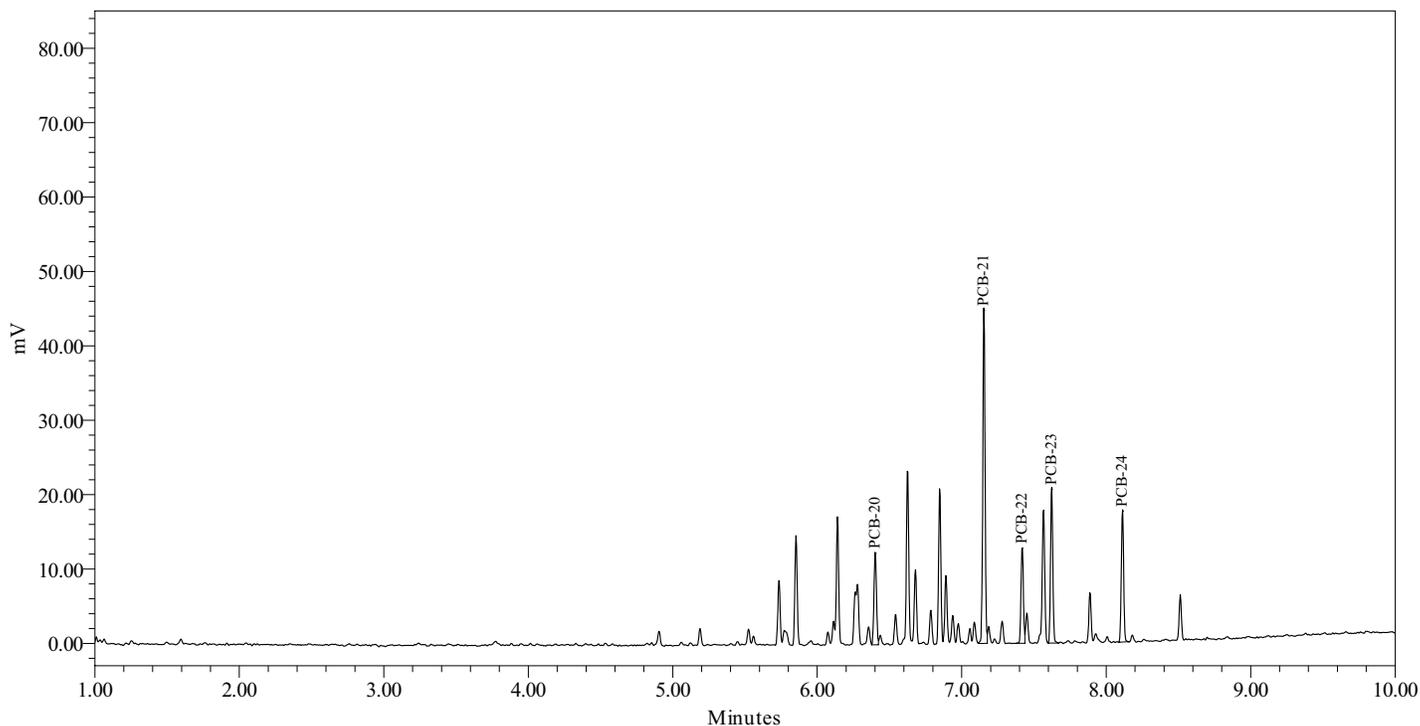
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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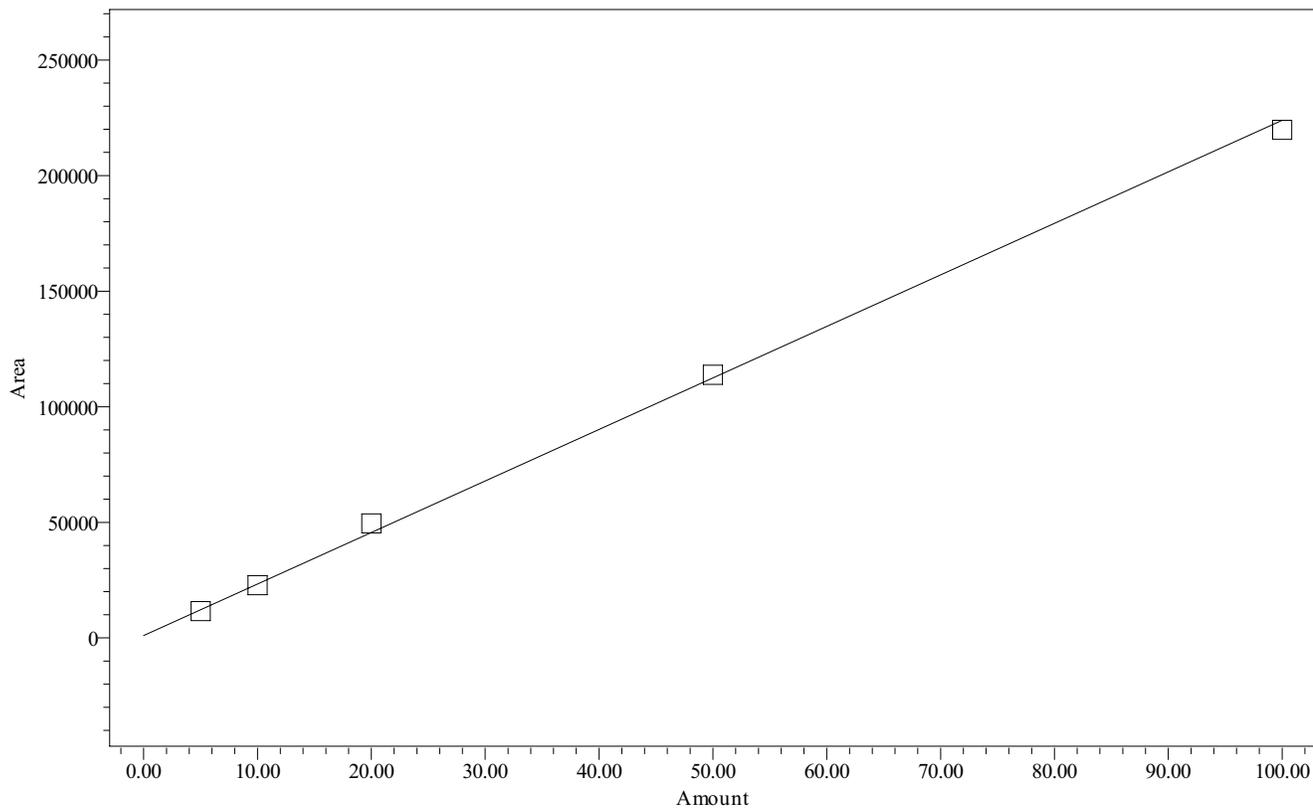
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

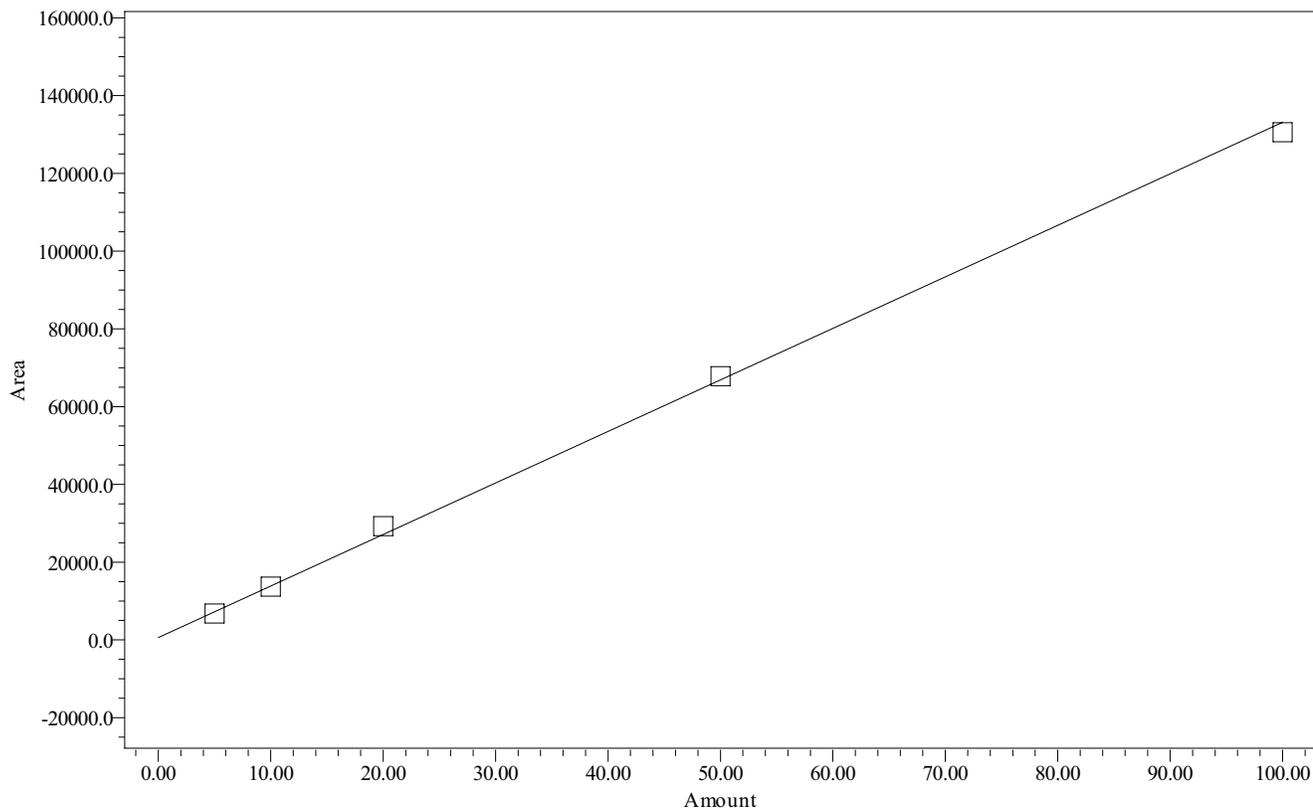
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:                       | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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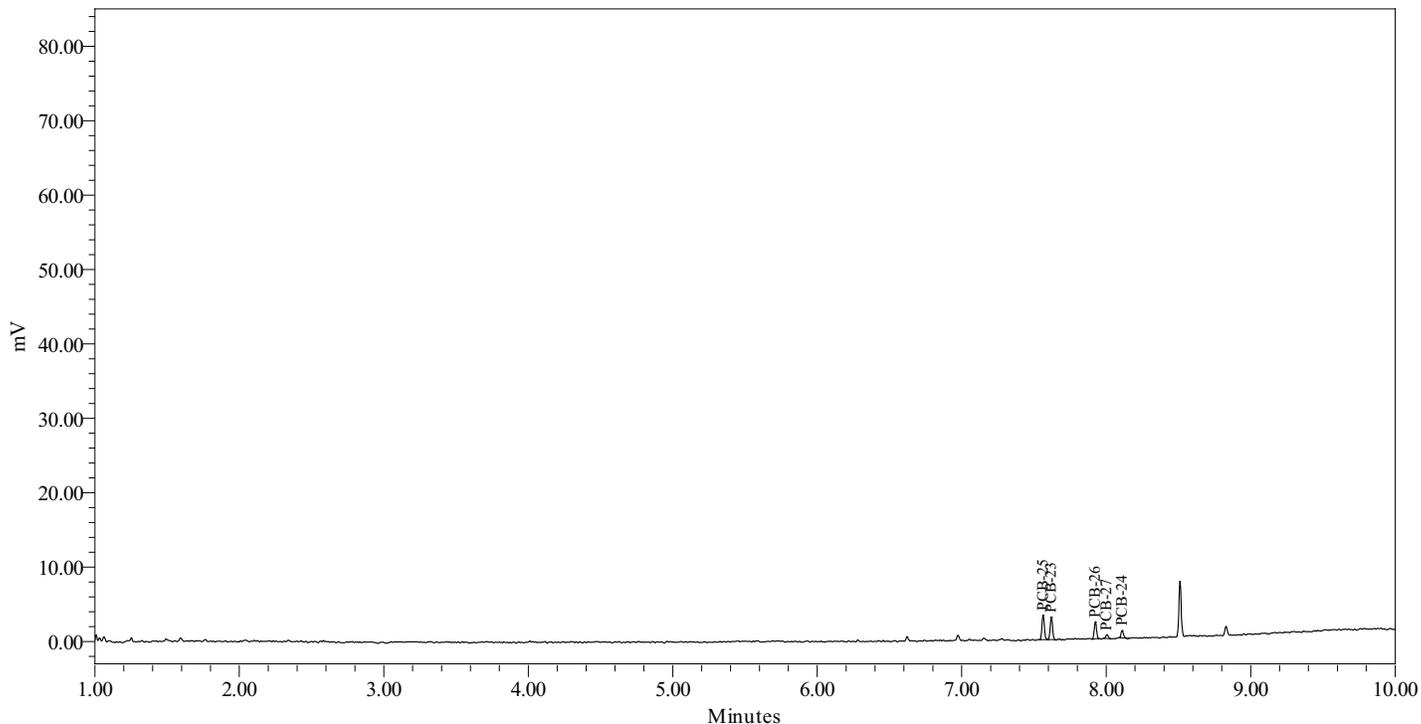
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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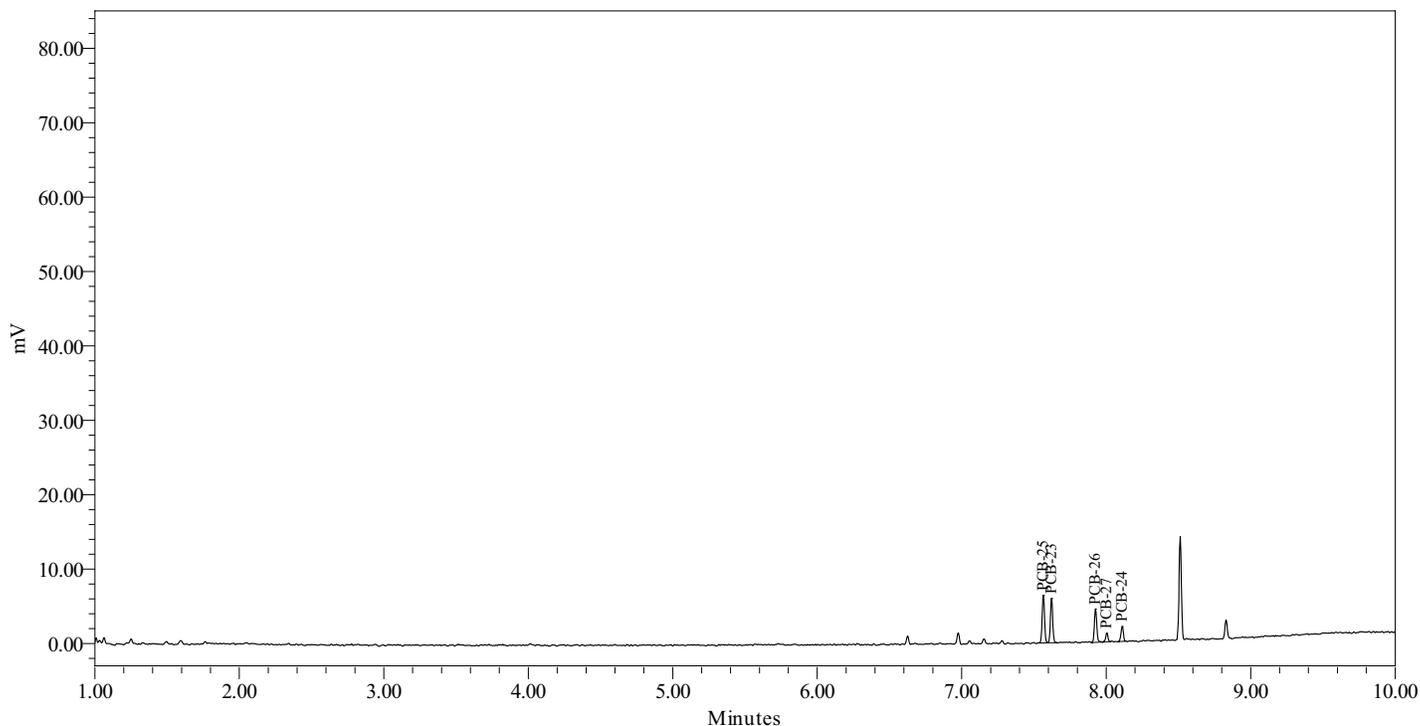
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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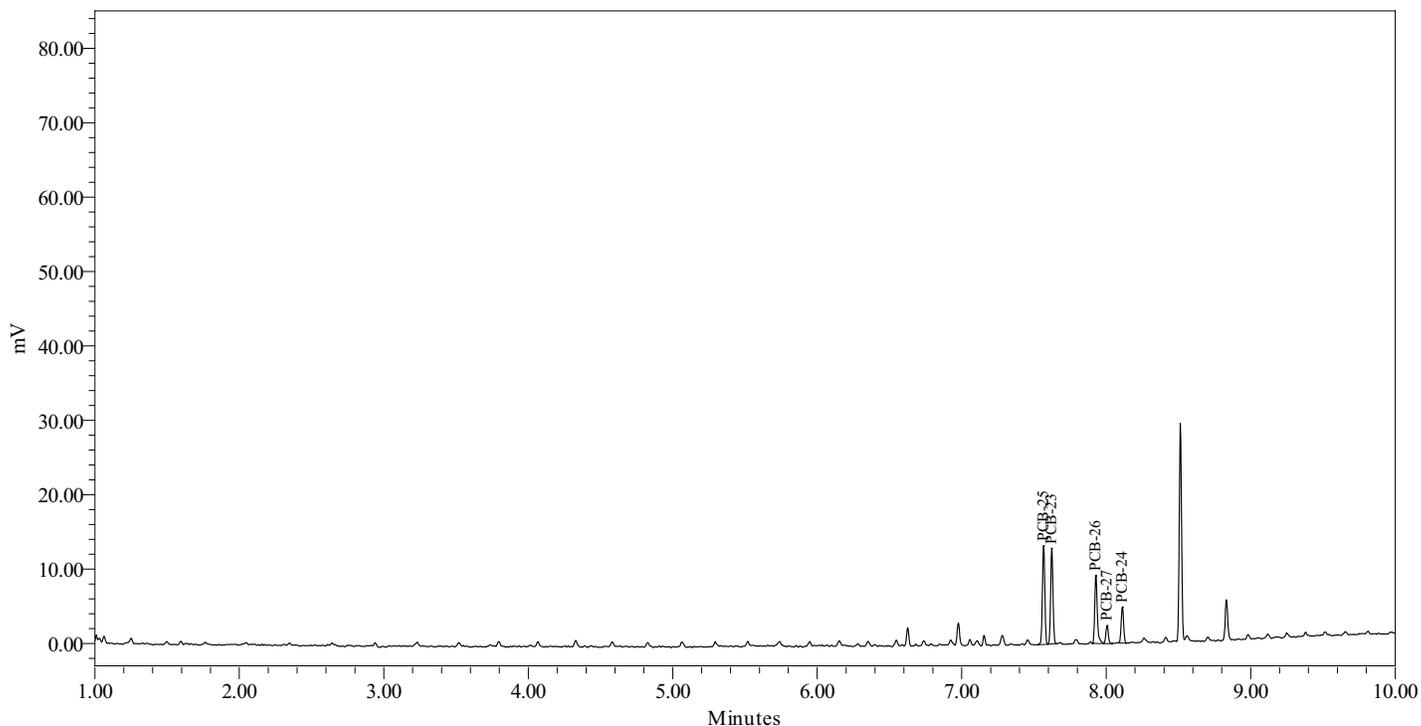
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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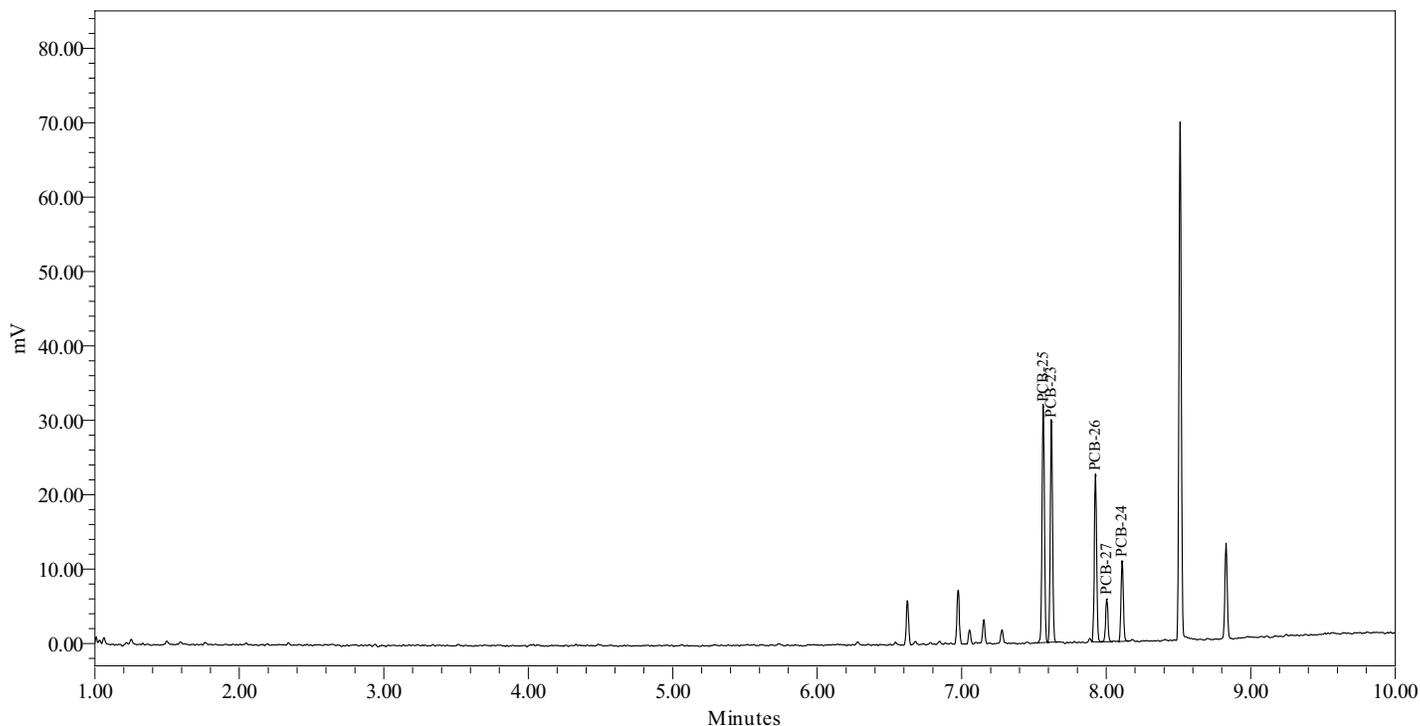
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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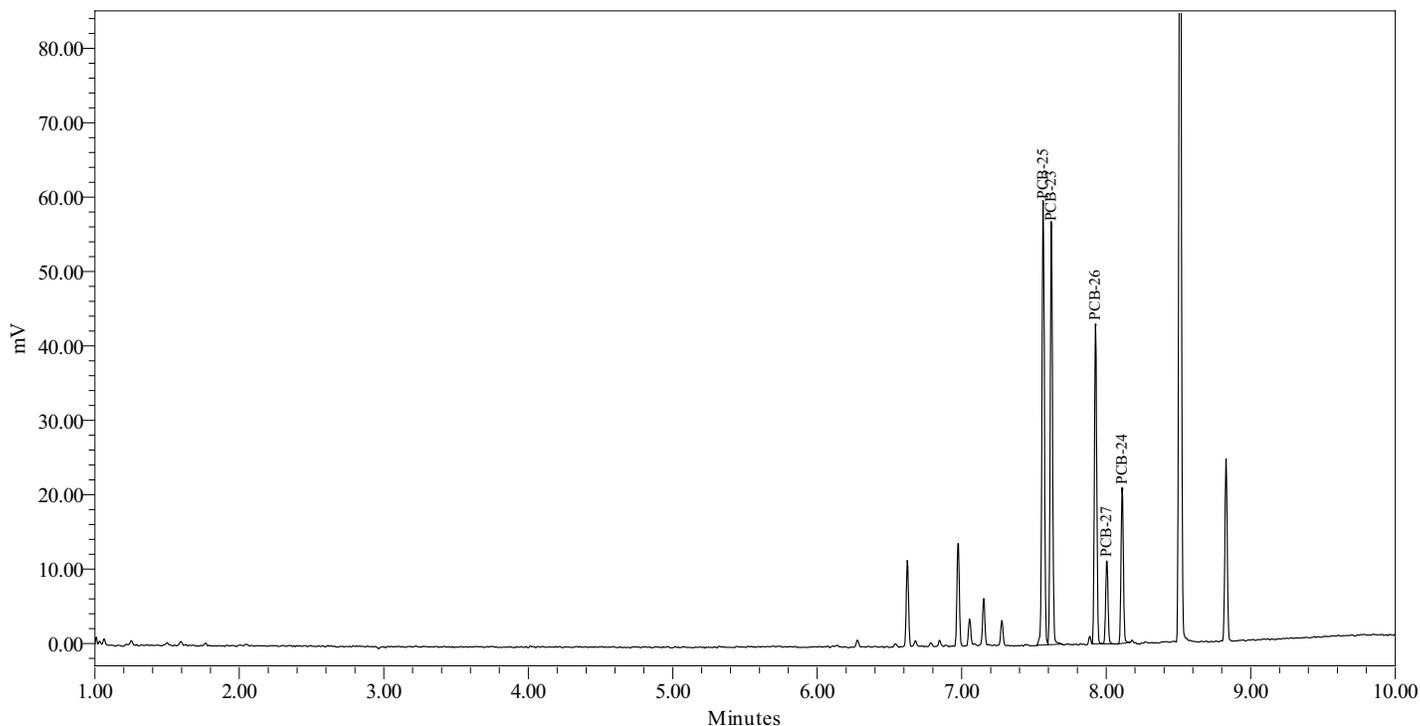
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



11

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060023

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1242 | GC28F-1631-33 | CS420602A     | CCV        | 50.7                | 50                 | 1.38               |   | 06/02/2015 18:01:13  |
| Aroclor 1248 | GC28F-1631-40 | CS480602A     | CCV        | 51.0                | 50                 | 1.93               |   | 06/02/2015 19:49:52  |
| Aroclor 1254 | GC28F-1631-43 | CS540602A     | CCV        | 52.0                | 50                 | 4.05               |   | 06/02/2015 20:36:46  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060023

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060023

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060023

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1242 | GC28F-1631-33 | CS420602A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420602A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420602A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420602A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420602A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1631-40 | CS480602A     | CCV         | 1    | 4.22 | 4.15      | 4.31 |
|              |               | CS480602A     | CCV         | 2    | 4.52 | 4.45      | 4.61 |
|              |               | CS480602A     | CCV         | 3    | 4.80 | 4.74      | 4.90 |
|              |               | CS480602A     | CCV         | 4    | 4.87 | 4.81      | 4.97 |
|              |               | CS480602A     | CCV         | 5    | 5.04 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1631-43 | CS540602A     | CCV         | 1    | 5.18 | 5.11      | 5.27 |
|              |               | CS540602A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540602A     | CCV         | 3    | 5.55 | 5.48      | 5.64 |
|              |               | CS540602A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540602A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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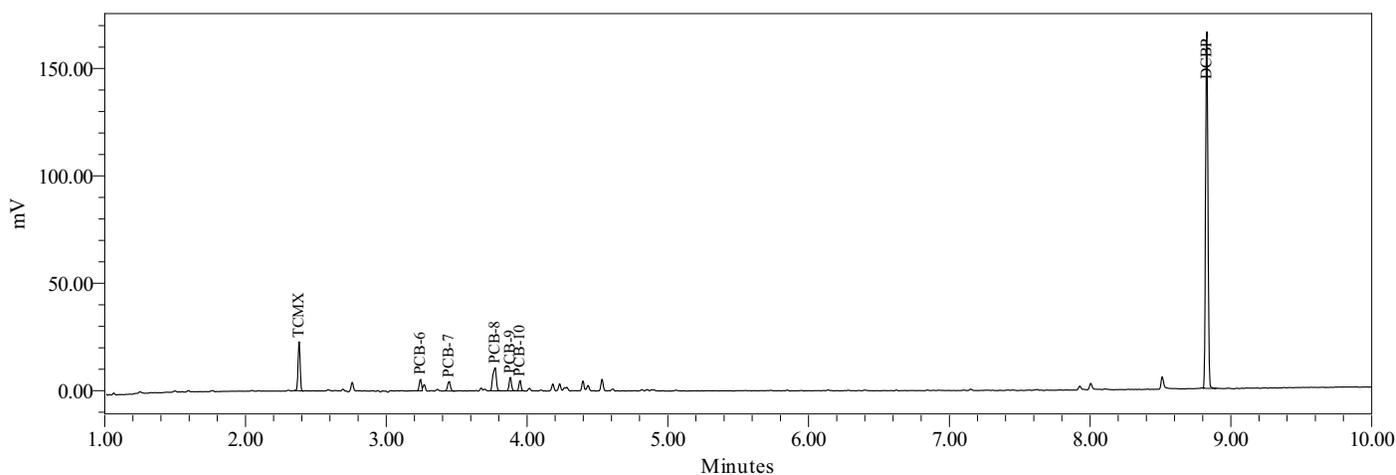
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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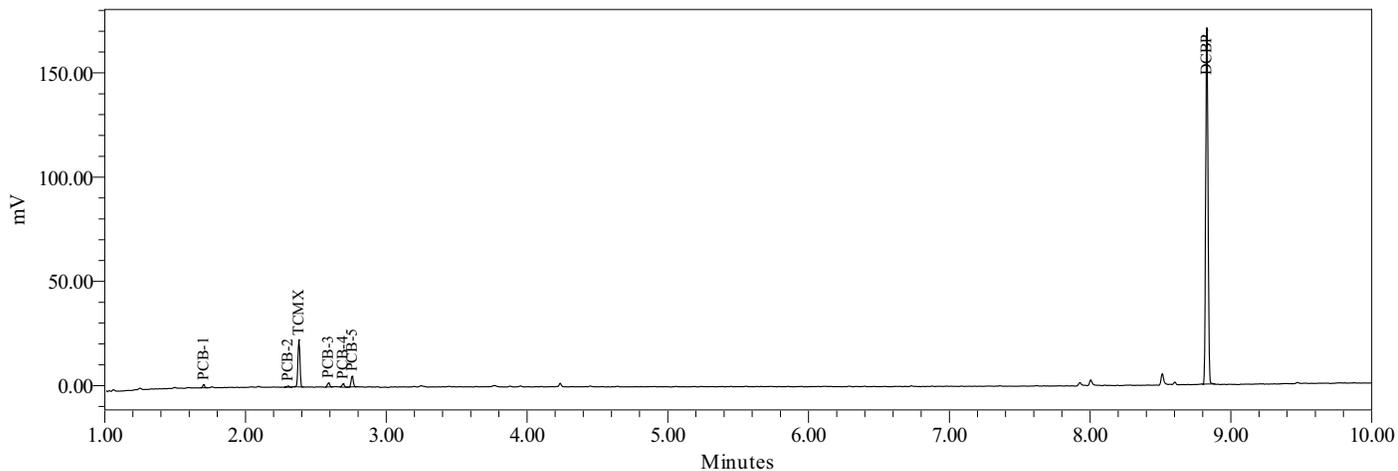
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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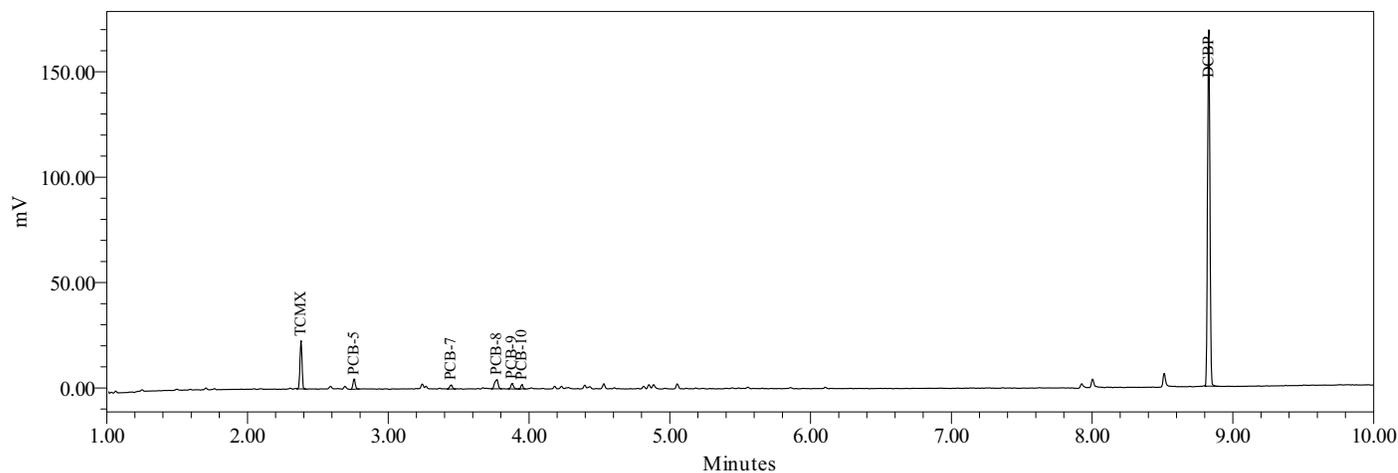
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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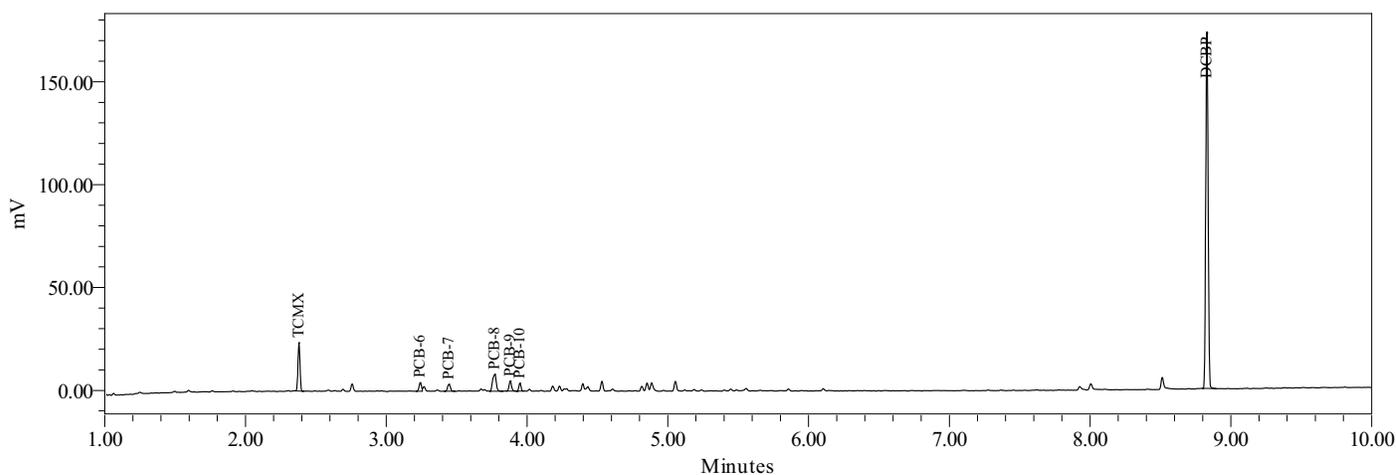
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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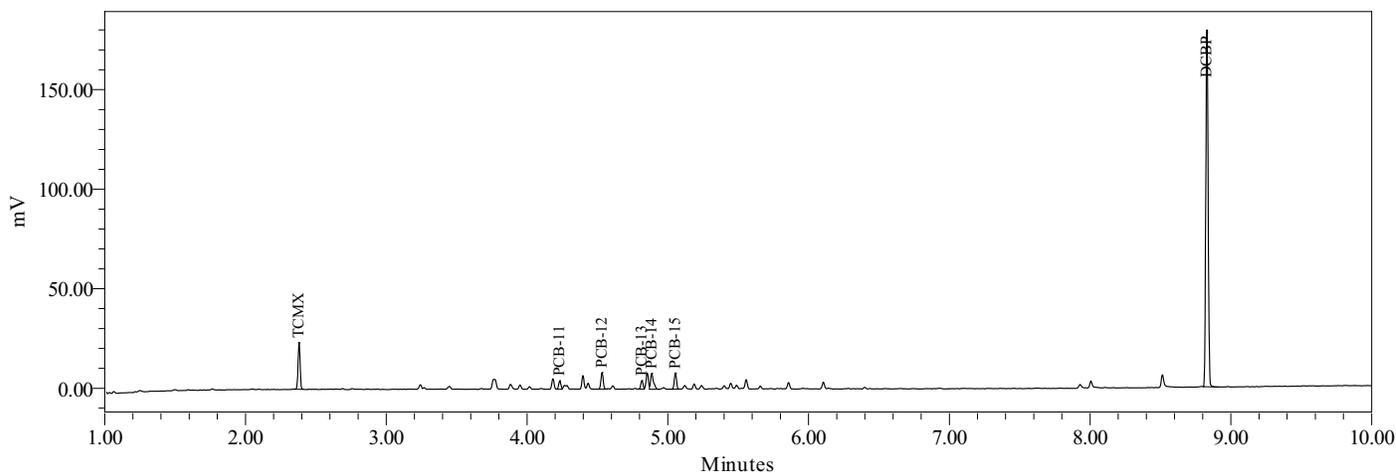
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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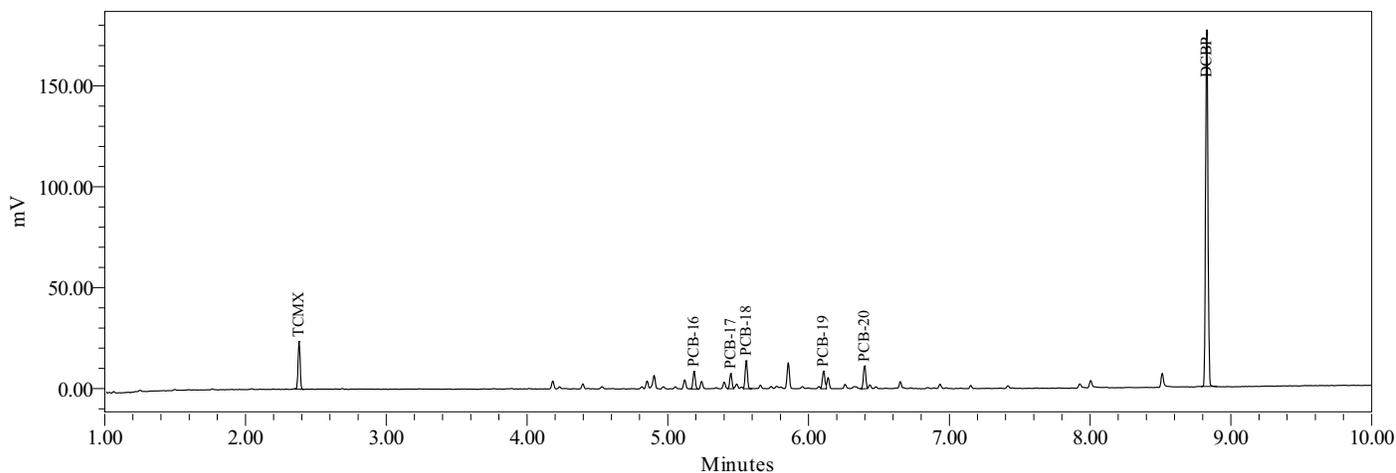
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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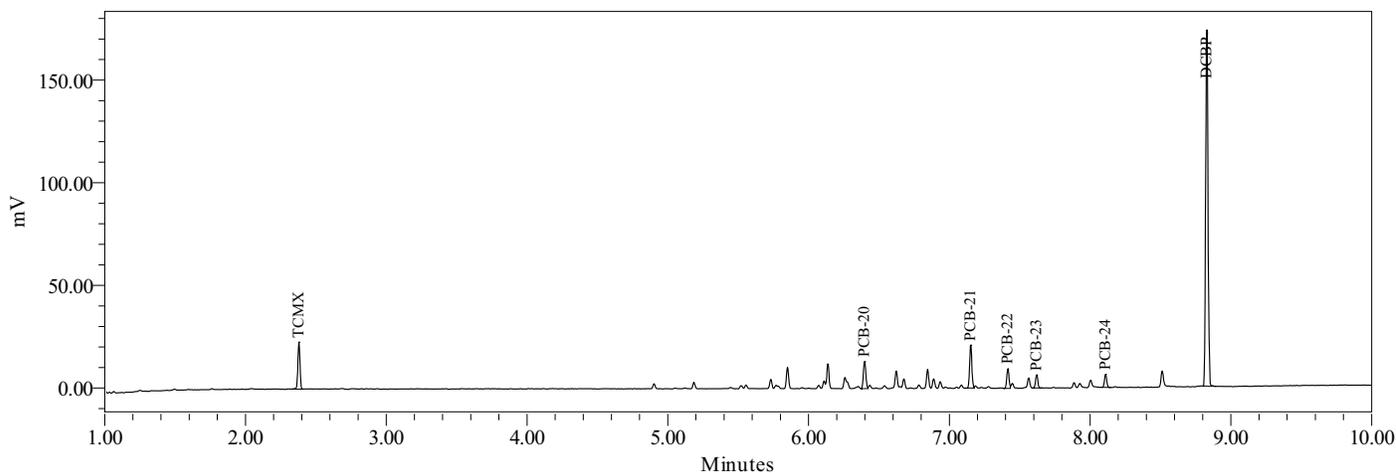
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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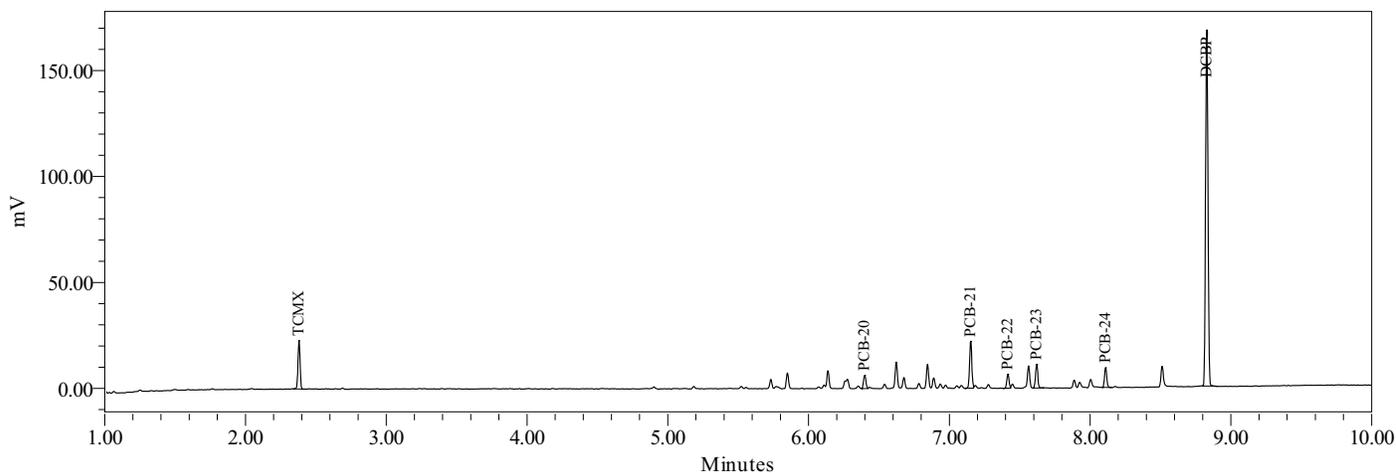
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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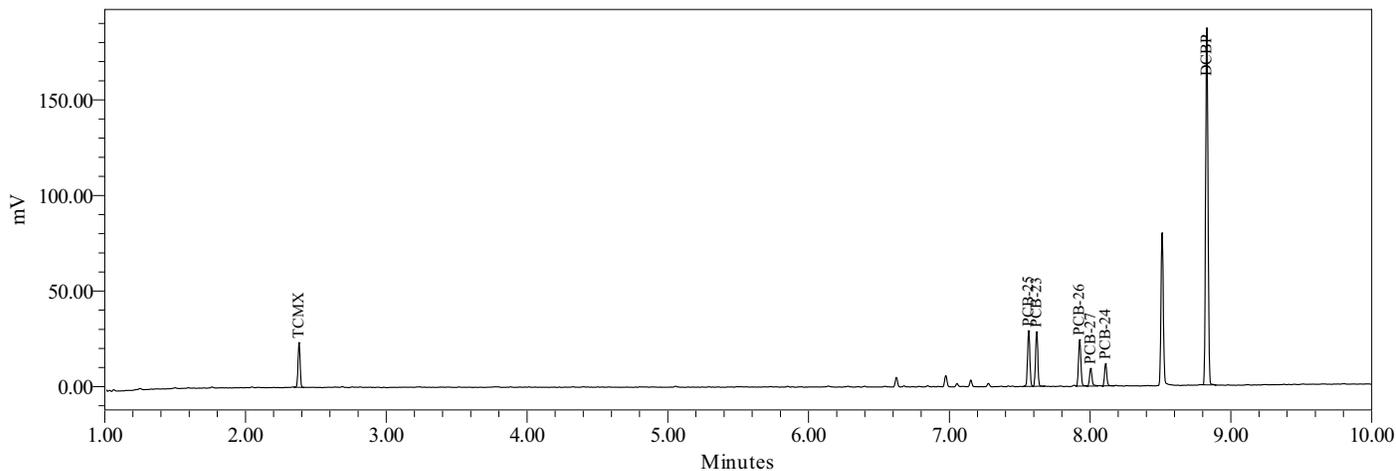
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



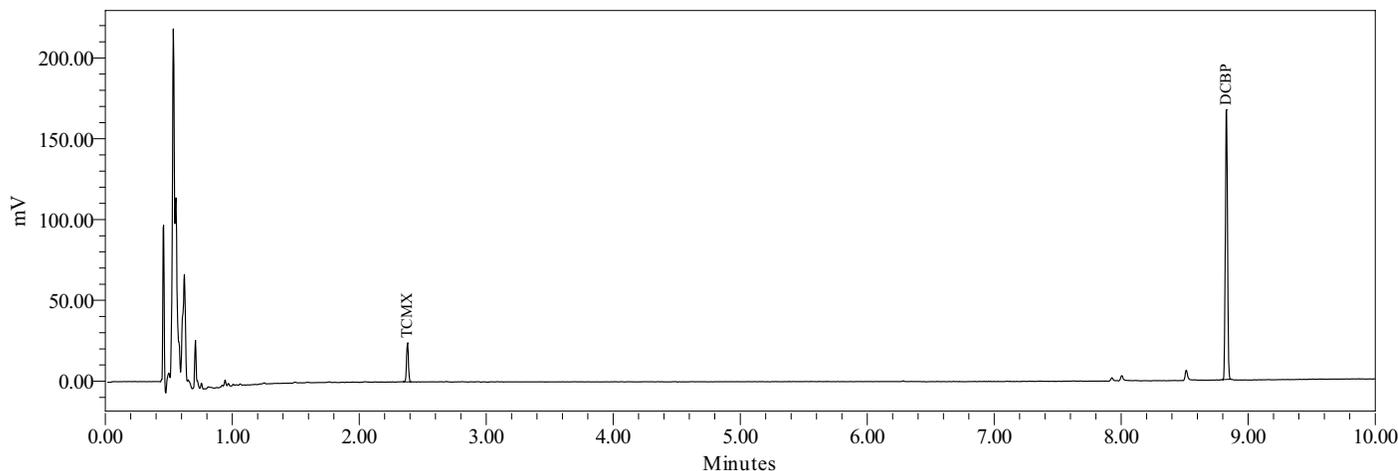
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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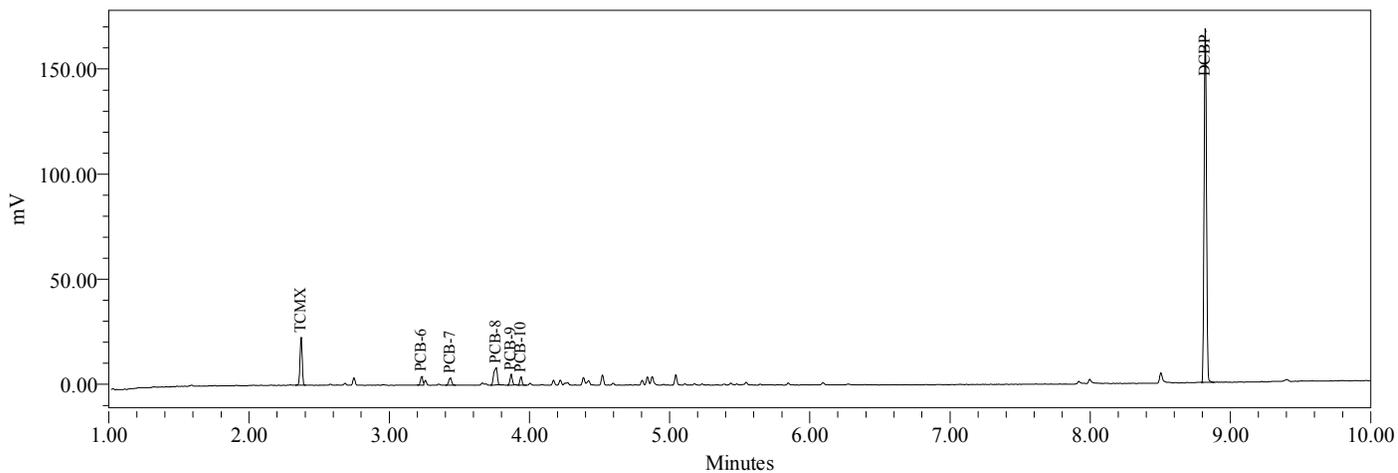
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS420602A               | Sample Amount:  | 1                            |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/2/2015 6:01:13 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 6:31:50 PM EDT      |
| Sample Set Name:   | GC28F_060215d           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:17:29 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1631-33 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 24165         | 4.952                | 99.0        |             |
| 2 PCB-6   | 3.231          | bV               | 4579          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 4666          |                      |             |             |
| 4 PCB-8   | 3.761          | bb               | 14245         |                      |             |             |
| 5 PCB-9   | 3.870          | bb               | 5941          |                      |             |             |
| 6 PCB-10  | 3.939          | bb               | 4017          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 196440        | 47.980               |             | 96.0        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 33447               | 39.605               | -20.79              |        |      |
| 2 A1232     | 28868               | 66.174               | 32.35               |        |      |
| 3 A1232-8/9 | 8683                | 42.147               | -15.71              |        |      |
| 4 A1242     | 33447               | 50.691               | 1.38                | X      |      |

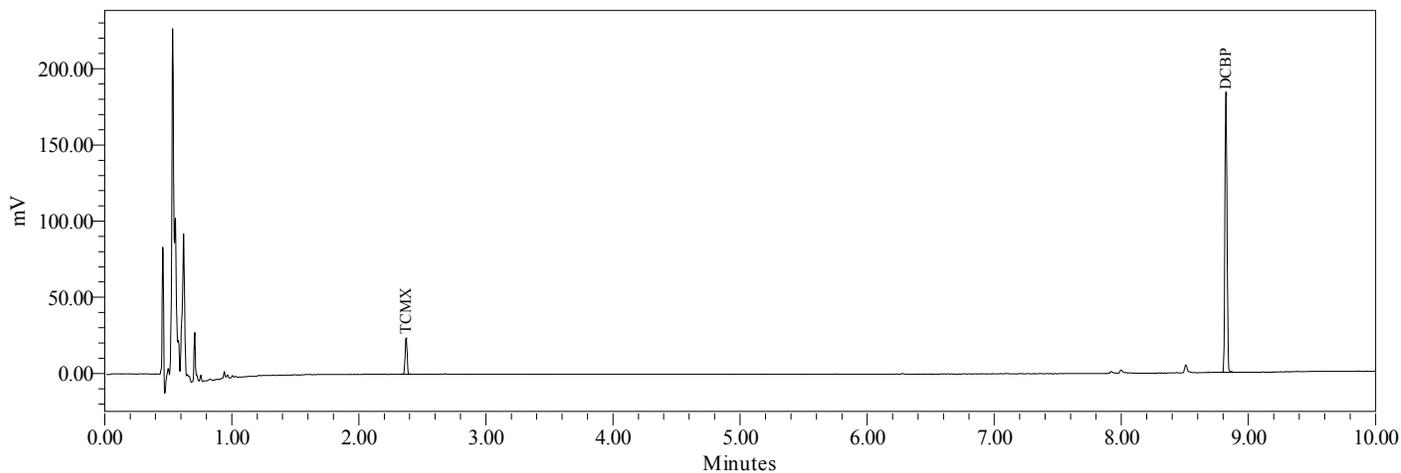


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150602B08               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/2/2015 6:15:04 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 6:32:05 PM EDT |
| Sample Set Name:   | GC28F_060215d           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:23:53 PM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1631-34 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | bb               | 25151         | 5.158                | 103.16282 |           |
| 2 | DCBP      | 8.823          | bb               | 211603        | 51.946               |           | 103.89222 |



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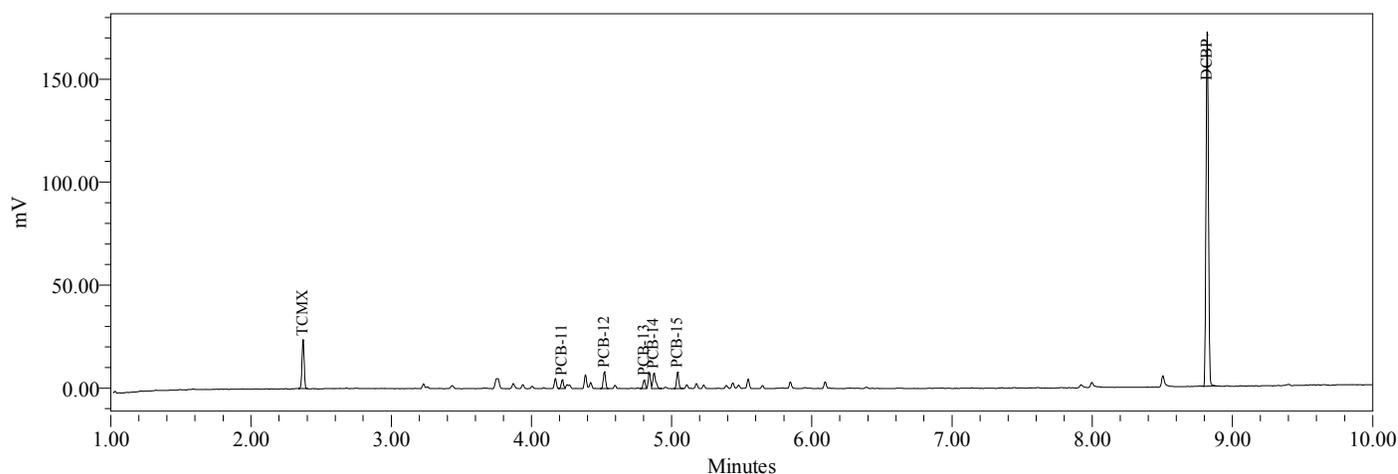
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS480602A               | Sample Amount:  | 1                            |
| Sample ID:         | A1248 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/2/2015 7:49:52 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 8:18:33 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:17:35 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1631-40 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 25177         | 5.164                | 103.3       |             |
| 2 PCB-11  | 4.220          | bV               | 4718          |                      |             |             |
| 3 PCB-12  | 4.521          | bb               | 9064          |                      |             |             |
| 4 PCB-13  | 4.804          | bV               | 4446          |                      |             |             |
| 5 PCB-14  | 4.874          | Vb               | 10871         |                      |             |             |
| 6 PCB-15  | 5.042          | bb               | 8948          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 204217        | 50.014               |             | 100.0       |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1248       | 38046               | 50.965               | 1.93                | X      |      |
| 2 A1248-11/15 | 24381               | 50.713               | 1.43                |        |      |
| 3 A1248-14/15 | 18228               | 50.881               | 1.76                |        |      |



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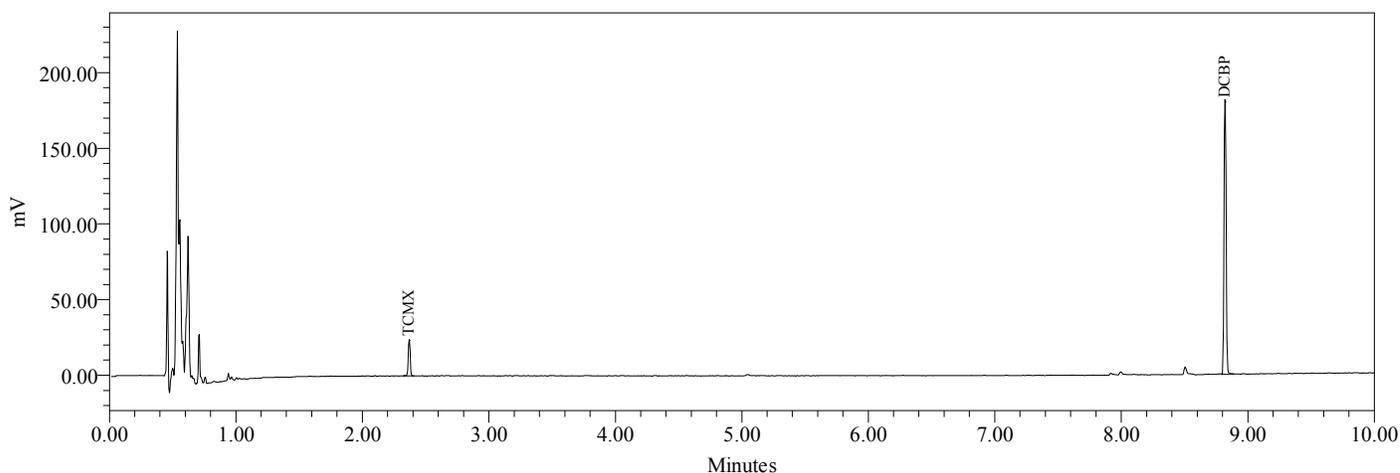
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Sample Name: 150602B09 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/2/2015 8:03:39 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/2/2015 8:18:52 PM EDT  
Sample Set Name: GC28F\_060215e User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/2/2015  
Run Time: 10.0 Minutes Current Time: 11:18:12 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1631-41 [m]

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | bb               | 25113         | 5.150                | 103.00313 |           |
| 2 | DCBP      | 8.821          | bb               | 209653        | 51.436               |           | 102.87196 |



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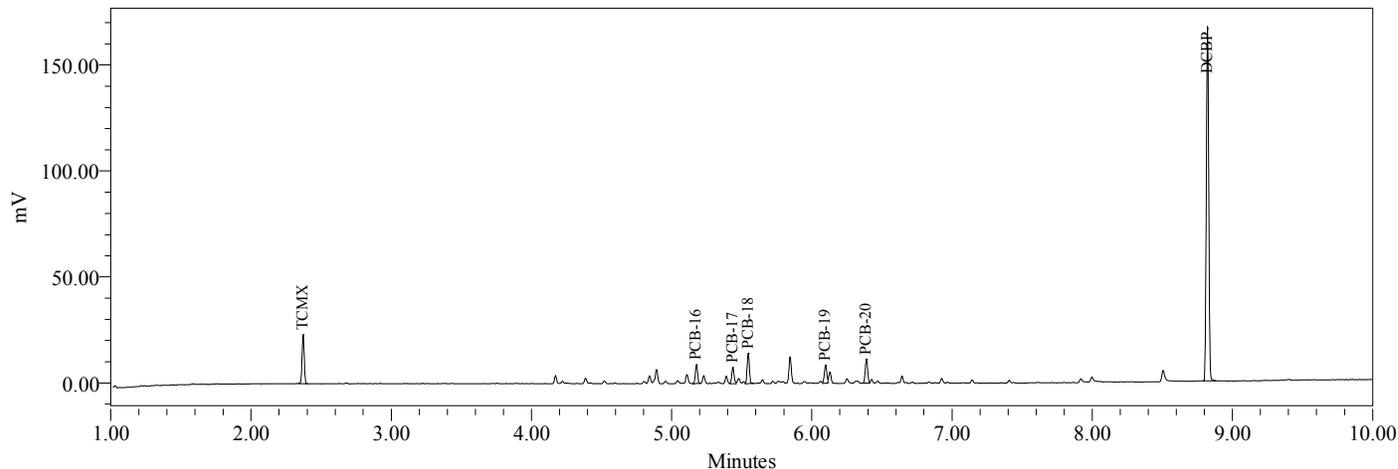
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS540602A               | Sample Amount:  | 1                            |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/2/2015 8:36:46 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/2/2015 9:07:20 PM EDT      |
| Sample Set Name:   | GC28F_060215f           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:17:40 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1631-43 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | bb               | 24313         | 4.983                | 99.7        |             |
| 2 PCB-16  | 5.177          | bb               | 9633          |                      |             |             |
| 3 PCB-17  | 5.437          | VV               | 8566          |                      |             |             |
| 4 PCB-18  | 5.547          | Vb               | 15589         |                      |             |             |
| 5 PCB-19  | 6.097          | VV               | 10207         |                      |             |             |
| 6 PCB-20  | 6.389          | bV               | 13572         |                      |             |             |
| 7 DCBP    | 8.823          | bb               | 196276        | 47.937               |             | 95.9        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 57566               | 52.027               | 4.05                | X      |      |
| 2 A1254-17/18 | 33411               | 51.896               | 3.79                |        |      |
| 3 A1254-19/20 | 33788               | 52.152               | 4.30                |        |      |
| 4 A1254-20    | 43995               | 51.676               | 3.35                |        |      |
| 5 A1260       | 13572               | 11.013               | -77.97              |        |      |
| 6 A1260-23/24 | 13572               | 14.063               | -71.87              |        |      |
| 7 A1262       | 13572               | 9.993                | -80.01              |        |      |



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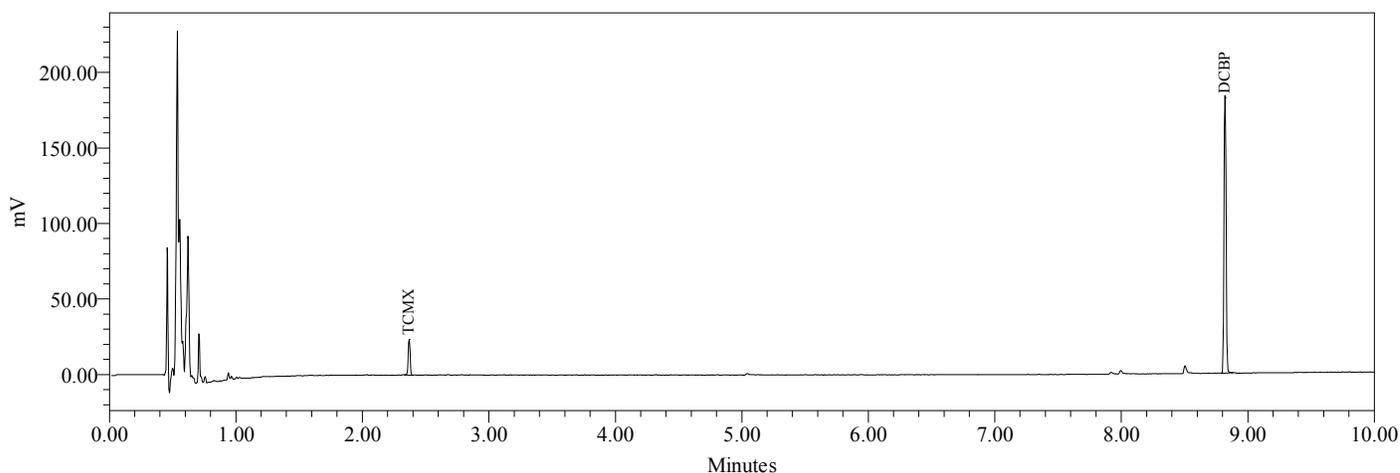
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Sample Name: 150602B10 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/2/2015 8:50:32 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/2/2015 9:07:35 PM EDT  
Sample Set Name: GC28F\_060215f User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/2/2015  
Run Time: 10.0 Minutes Current Time: 11:18:17 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1631-44 [m]

Peak Results

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.370          | bb               | 24889         | 5.103                | 102.06691 |           |
| 2 DCBP    | 8.820          | bb               | 211341        | 51.878               |           | 103.75508 |



# QC SAMPLE RAW DATA

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                      |
|-----------------------|---|------------------|----------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060023</u>      |
| ELAP ID No:           | <u>11078</u>  | LRP ID:          | <u>PBLK-79</u>       |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>METHOD BLANK</u>  |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS11231B</u>      |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1631-35</u> |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>            |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/02/2015</u>    |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/02/2015</u>    |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>             |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>           |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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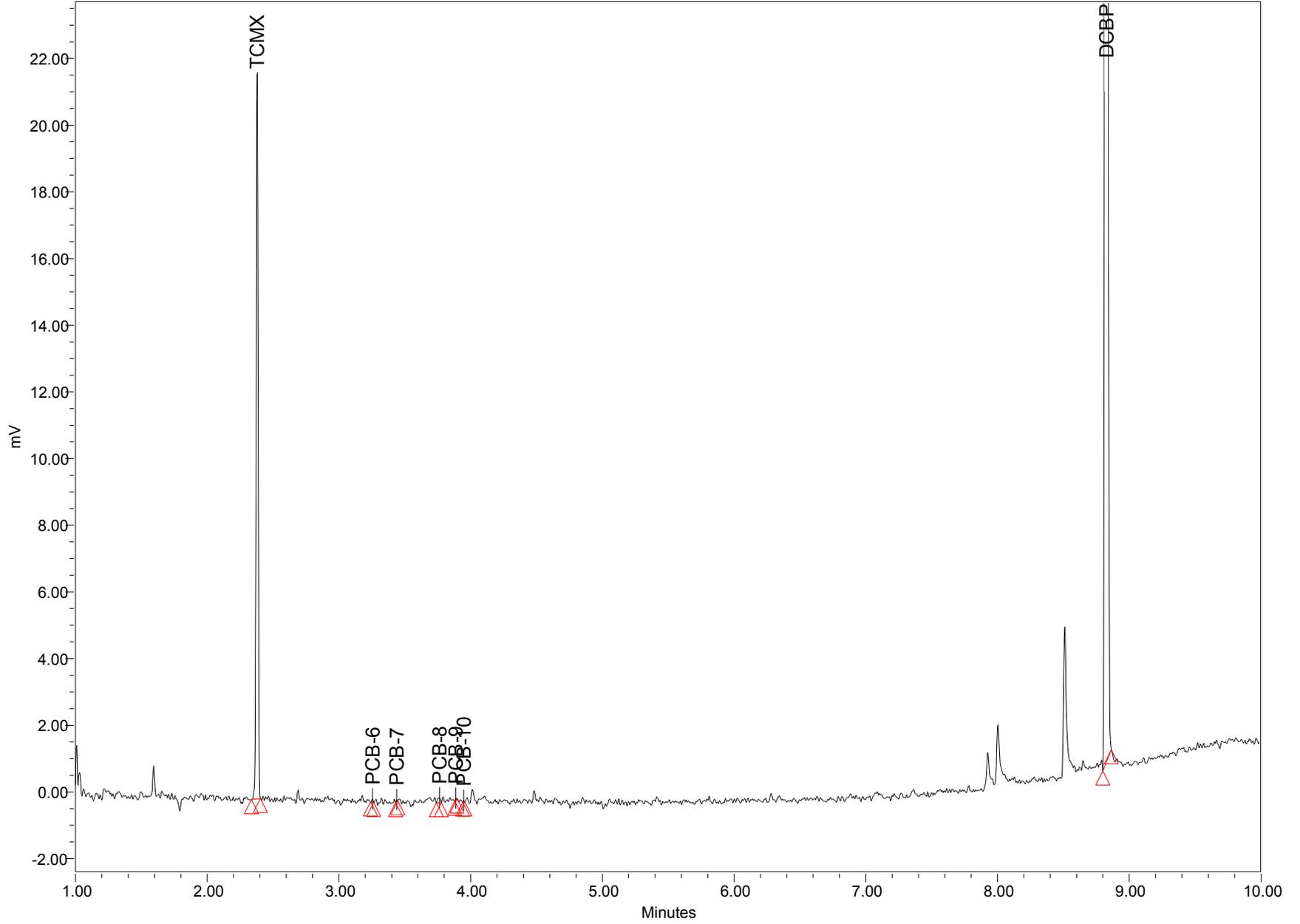
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11231B                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 6:40:01 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 8:30:25 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:16:47 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-35 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.379          | bb               | 22810         | 4.668                | 93.4        |             |
| 2 | PCB-6     | 3.254          | bb               | 74            |                      |             |             |
| 3 | PCB-7     | 3.439          | bb               | 31            |                      |             |             |
| 4 | PCB-8     | 3.763          | bb               | 214           |                      |             |             |
| 5 | PCB-9     | 3.888          | bb               | 35            |                      |             |             |
| 6 | PCB-10    | 3.947          | bb               | 28            |                      |             |             |
| 7 | DCBP      | 8.826          | bb               | 212243        | 52.114               |             | 104         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 382.8593            | 0.275                | 0.00137     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 308.6213            | 0.698                | 0.00349     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 59.4641             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 382.8593            | 0.404                | 0.00202     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11231B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060023</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-79</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11231L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1631-36</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/02/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/02/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

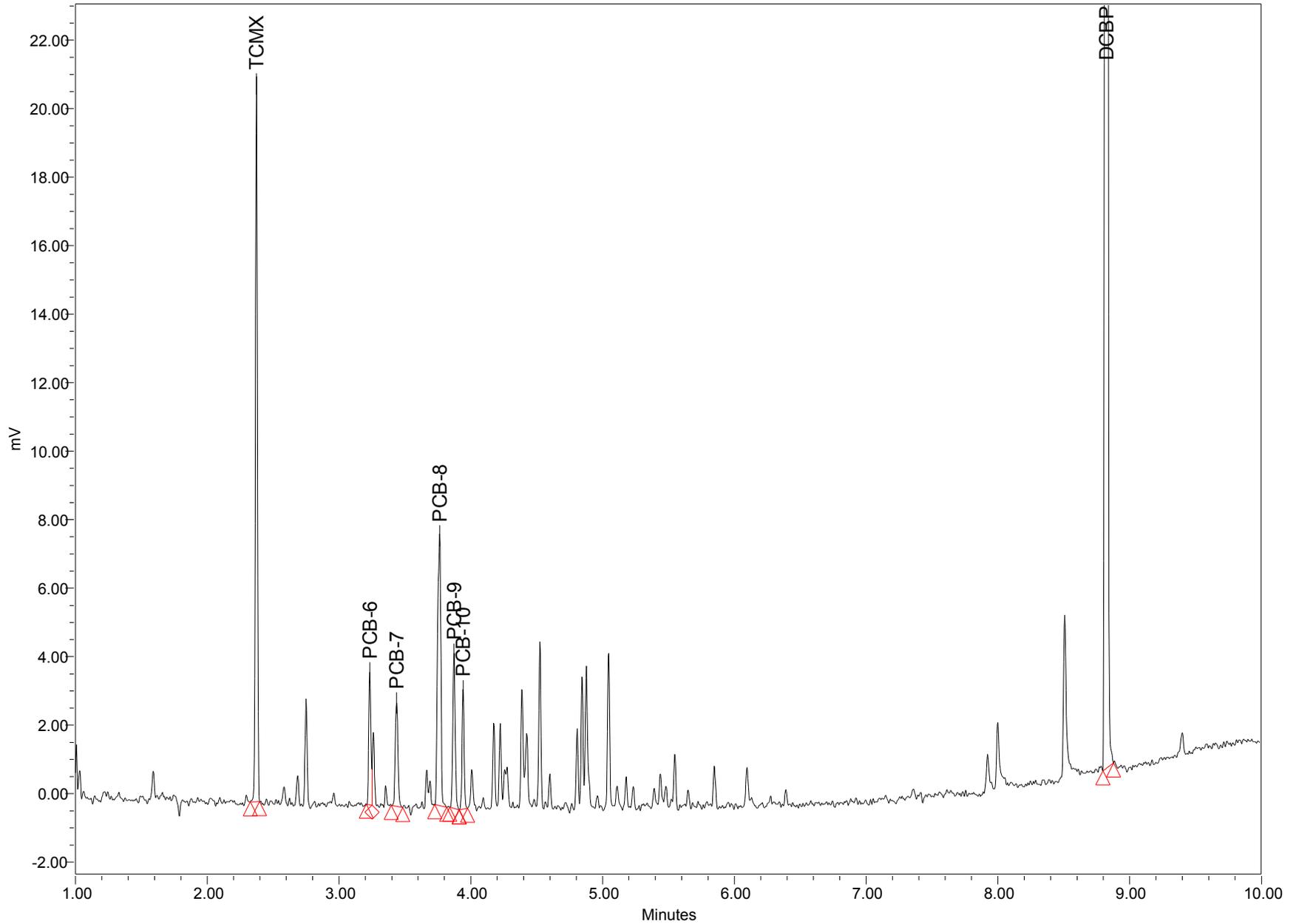
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11231L                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                            |
| Date Acquired:     | 6/2/2015 6:54:09 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/2/2015 8:31:39 PM EDT      |
| Sample Set Name:   | GC28F_060215e           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/2/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:16:51 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1631-36 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.373          | bb               | 21901         | 4.478                | 89.6        |             |
| 2 | PCB-6     | 3.233          | bV               | 4349          |                      |             |             |
| 3 | PCB-7     | 3.437          | bb               | 4338          |                      |             |             |
| 4 | PCB-8     | 3.763          | bb               | 13783         |                      |             |             |
| 5 | PCB-9     | 3.872          | bb               | 5765          |                      |             |             |
| 6 | PCB-10    | 3.941          | bb               | 3916          |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 208350        | 51.095               |             | 102         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32152.4246          | 38.065               | 0.19032     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27803.5616          | 63.732               | 0.31866     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8254.7786           | 40.045               | 0.20022     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32152.4246          | 48.722               | 0.24361     | 0.0250   | 0.00873  | X      |      |



SampleName AS11231L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060023

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-LOC5-T150602083936  
**Lab Sample ID:** 15060023-01 (AS11339)

**Collection Date:** 06/02/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1631-42 | NE273_04 (Quick TAT Aroclor Method) | 06/02/2015 20:22 | JRS     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30913             | EPA 3535A                           | 06/02/2015 14:16 | KEN     | 1070 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-42 |
| Aroclor 1221          | 11104-28-2 | 0.0997        | 0.0250 | 1.00            | PB    | GC28F-1631-42 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-42 |
| Aroclor 1242          | 53469-21-9 | 0.0230        | 0.0250 | 1.00            | AD,J  | GC28F-1631-42 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-42 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-42 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1631-42 |
| Total PCB Amount > RL | 1336-36-3  | 0.1227        |        | 1.00            |       | GC28F-1631-42 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 93.3       | 70.0-130   |                | GC28F-1631-42 |
| Decachlorobiphenyl      | 2051-24-3 | 77.7       | 70.0-130   |                | GC28F-1631-42 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060023

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-WAFA-T150602084033  
**Lab Sample ID:** 15060023-02 (AS11340)

**Collection Date:** 06/02/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/02/2015 12:47  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1631-39 | NE273_04 (Quick TAT Aroclor Method) | 06/02/2015 19:35 | JRS     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30913         | EPA 3535A                           | 06/02/2015 14:16 | KEN     | 1000 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L)  | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|----------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND             | 0.0250 | 1.00            | U     | GC28F-1631-39 |
| Aroclor 1221          | 11104-28-2 | <b>0.0812</b>  | 0.0250 | 1.00            | PB    | GC28F-1631-39 |
| Aroclor 1232          | 11141-16-5 | ND             | 0.0250 | 1.00            | U     | GC28F-1631-39 |
| Aroclor 1242          | 53469-21-9 | <b>0.0341</b>  | 0.0250 | 1.00            | AD    | GC28F-1631-39 |
| Aroclor 1248          | 12672-29-6 | ND             | 0.0250 | 1.00            | U     | GC28F-1631-39 |
| Aroclor 1254          | 11097-69-1 | <b>0.00875</b> | 0.0250 | 1.00            | AF,J  | GC28F-1631-39 |
| Aroclor 1260          | 11096-82-5 | ND             | 0.0250 | 1.00            | U     | GC28F-1631-39 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.12405</b> |        | 1.00            |       | GC28F-1631-39 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 96.5       | 70.0-130   |                | GC28F-1631-39 |
| Decachlorobiphenyl      | 2051-24-3 | 83.4       | 70.0-130   |                | GC28F-1631-39 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060023

ELAP ID No: 11078

Duplicate Lab ID No: AS11340D

Date Analyzed: 06/02/2015

Original Lab ID No: AS11340

| TEST PARAMETER         | ORIGINAL SAMPLE RESULT (mg/L) | DUPLICATE SAMPLE RESULT (mg/L) | RELATIVE <sup>1</sup> PERCENT DIFFERENCE (RPD) # |
|------------------------|-------------------------------|--------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 17.4                          | 17.9                           | 2.86   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2108 Date In Oven: 06/02/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060115B9P11 Date Out Oven: 06/03/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29116   | BLANK-64       | AS10587B      | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WR        | 1000             | 0.1248         | 0.1246       | -0.2              |                    |       |      |          |
| 29117   | LCS-64         | AS10587L      | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WS        | 250              | 0.1076         | 0.1307       | 92.4              | 100                | 92.4  |      |          |
| 29113   | 15050494-01    | AS10587       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WT        | 1040             | 0.1128         | 0.1155       | 2.6               |                    |       |      |          |
| 29114   | 15050494-02    | AS10588       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WU        | 100              | 0.1067         | 0.1205       | 138               |                    |       |      |          |
| 29115   | 15050494-03    | AS10589       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WV        | 74               | 0.1095         | 0.1192       | 131               |                    |       |      |          |
| 29118   | 15050501-01    | AS10617       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WW        | 128              | 0.1177         | 0.1298       | 94.5              |                    |       |      |          |
| 29119   | 15050501-02    | AS10618       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WX        | 980              | 0.1277         | 0.1310       | 3.37              |                    |       |      |          |
| 29120   | 15050509-03    | AS10643       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WY        | 640              | 0.1082         | 0.1214       | 20.6              |                    |       |      |          |
| 29121   | 15050509-04    | AS10644       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6WZ        | 1000             | 0.1109         | 0.1115       | 0.6               |                    |       |      |          |
| 29122   | 15050509-05    | AS10645       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6X0        | 840              | 0.1169         | 0.1448       | 33.2              |                    |       |      |          |
| 29123   | 15050529-01    | AS10778       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6X1        | 174              | 0.1075         | 0.1188       | 64.9              |                    |       |      |          |
| 29129   | 15050529-01DUP | AS10778D      | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | 6X2        | 134              | 0.1139         | 0.1241       | 76.1              |                    |       | 15.8 |          |
| 29124   | 15050529-02    | AS10779       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVO        | 260              | 0.1131         | 0.1264       | 51.2              |                    |       |      |          |
| 29125   | 15050529-03    | AS10780       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVP        | 140              | 0.1091         | 0.1236       | 104               |                    |       |      |          |
| 29126   | 15050529-04    | AS10781       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVQ        | 160              | 0.1081         | 0.1621       | 336               |                    |       |      |          |
| 29127   | 15050529-05    | AS10782       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVR        | 150              | 0.1065         | 0.1254       | 126               |                    |       |      |          |
| 29130   | 15060023-01    | AS11339       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVS        | 980              | 0.1069         | 0.1138       | 7.04              |                    |       |      |          |
| 29131   | 15060023-02    | AS11340       | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVT        | 680              | 0.1087         | 0.1205       | 17.4              |                    |       |      |          |
| 29132   | 15060023-02DUP | AS11340D      | L      | <input checked="" type="checkbox"/> | 15:05        | 09:40         | WVU        | 560              | 0.1070         | 0.1170       | 17.9              |                    |       | 2.86 |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/5/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060023

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/02/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150602083936 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060023-01 (AS11339)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2108 | SM 2540D | 06/02/2015 15:05 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 7.04          | 1.02 | 1.02            |       | 2108    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060023

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/02/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150602084033 | <b>Received Date:</b> 06/02/2015 12:47   |
| <b>Lab Sample ID:</b> 15060023-02 (AS11340)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2108 | SM 2540D | 06/02/2015 15:05 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 17.4          | 1.47 | 1.47            |       | 2108    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 02, 2015

**Lab Report ID:** 15060055

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15060055) consists of 3 water samples received on 06/03/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS11504              | NRS-162.90-T150602083553 | 06/02/2015 06:00       |
| AS11505              | NRS-186.00-T150602083826 | 06/02/2015 06:00       |
| AS11506              | NRS-187.70-T150602083654 | 06/02/2015 06:00       |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/03/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Samples (LAB ID: AS11505 and AS11506) were re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150602152317PACE

Sample Custodian: JR

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | NRS-162.90-T150602083553 | ENV   | W         | 06/02/2015     | 06:00          | W      | 3            |                |                        |          |     |    |                        |              |       |
|                   |                          |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 72           | 4degC |
|                   |                          |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 72           | 4degC |
| 002               | NRS-186.00-T150602083826 | ENV   | W         | 06/02/2015     | 06:00          | W      | 3            |                |                        |          |     |    |                        |              |       |
|                   |                          |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 72           | 4degC |
|                   |                          |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 72           | 4degC |
| 003               | NRS-187.70-T150602083654 | ENV   | W         | 06/02/2015     | 06:00          | W      | 3            |                |                        |          |     |    |                        |              |       |
|                   |                          |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 72           | 4degC |
|                   |                          |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 72           | 4degC |

A511504

A511505

A511506

3

|  |                            |                            |                             |                  |             |
|--|----------------------------|----------------------------|-----------------------------|------------------|-------------|
| Comments: Temp: 3.0, 3.0 COC seal: (P) |                            |                            |                             |                  |             |
| Relinquished by:                       |                            | Received by:               |                             | Relinquished by: |             |
| Signature: <i>C. Szablast</i>          | Signature: <i>E. Broke</i> | Signature: <i>E. Broke</i> | Signature: <i>A. Tommas</i> | Signature:       | Signature:  |
| Print Name: C. Szablast                | Print Name: E. Broke       | Print Name: E. Broke       | Print Name: A. Tommas       | Print Name:      | Print Name: |
| Company: Anchor QEA                    | Company: PACE              | Company: PACE              | Company: PACE               | Company:         | Company:    |
| Date/Time: 6/3/15 10:40                | Date/Time: 6/3/15 11:40    | Date/Time: 6/3/15 12:15    | Date/Time: 6/3/15 12:15     | Date/Time:       | Date/Time:  |

Date Printed: 6/2/2015

\* S = SEDIMENT, W = WATER, PW = PORE WATER \*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



CLIENT NAME: GE  
PROJECT: HR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
TRACKING # MA  
PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other   
THERMOMETER USED: #164  IR Gun 03  #122087967   
BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
ICE USED: Wet  Blue  None   
COOLER TEMPERATURE (°C): 3.0, 3.0  
Temp should be above freezing to 6°C

COMMENTS:

|  |  |  |
|--|--|--|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 1.   |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 2.   |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 3.   |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 4.   |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.   |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.   |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 7. <u>72hr</u>   |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 8.   |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.   |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |  |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.  |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.  |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 12.  |
| - Includes date/time/ID/Analysis   |  |  |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.  |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| - Exceptions that are not checked: VOA   |  | Initial when completed: <u>MA</u> Lot # of added preservative: <u>MA</u> |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.  |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.  |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Pace Trip Blank Lot #: <u>MA</u>   |  |  |

Sample Receipt form filled in: ATM 6/3/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): ATM 6/3/15  
Log In (Includes notifying PM of any discrepancies and documenting in LIMS): ATM 6/3/15  
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): ATM 6/3/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060055

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060055  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*72 HOUR\*

**RECEIVED DATE:** 06/03/2015 12:15  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 2  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 3.0, 3.0 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
<sup>3</sup> **SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| NRS-162.90-T150602083553 (AS11504) | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150602083826 (AS11505) | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150602083654 (AS11506) | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-06-15        | 06/02/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/03/15

Batch ID: 30928

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307395        | PBLK-92       | AS11507B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 2       | 307394        | LCS-92        | AS11507L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 3       | 307389        | 15060056-01   | AS11507  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 960                 | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 4       | 307390        | 15060056-02   | AS11508  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1080                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 5       | 307391        | 15060055-01   | AS11504  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 980                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 6       | 307392        | 15060055-02   | AS11505  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 960                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 7       | 307393        | 15060055-03   | AS11506  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 940                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000091077          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaal*

Elizabeth Ramkirpaal

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060055**

**Batch ID: 30928**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst    | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|---------------------|------------------|
| AS11507B      | GC28F-1632-32 | Water  | 06/03/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton       | NA               |
| AS11507L      | GC28F-1632-33 | Water  | 06/03/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton       | NA               |
| AS11507       | GC28F-1632-34 | Water  | 06/03/15  | 960                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton       | NA               |
| AS11508       | GC28F-1632-35 | Water  | 06/03/15  | 1080                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton       | NA               |
| AS11504       | GC28F-1633-10 | Water  | 06/03/15  | 980                  | 5               | NA              | NA            | 1              | NA                | 5x               | Kudakwashe Chinhoyi | NA               |
| AS11505RR1    | GC28F-1633-32 | Water  | 06/03/15  | 960                  | 5               | NA              | NA            | 1              | NA                | 5x               | Kudakwashe Chinhoyi | NA               |
| AS11506RR1    | GC28F-1633-33 | Water  | 06/03/15  | 940                  | 5               | NA              | NA            | 1              | NA                | 5x               | Kudakwashe Chinhoyi | NA               |

**COMMENTS:** \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1  
PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060055

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-92        | AS11507B      | GC28F-1632-32 | 88.1                   | 96.7                   |           |           | 0         |
| LCS-92         | AS11507L      | GC28F-1632-33 | 87.8                   | 98.3                   |           |           | 0         |
| 15060055-01    | AS11504       | GC28F-1633-10 | 93.8                   | 85.6                   |           |           | 0         |
| 15060055-02RR1 | AS11505RR1    | GC28F-1633-32 | 89.4                   | 76.7                   |           |           | 0         |
| 15060055-03RR1 | AS11506RR1    | GC28F-1633-33 | 90.9                   | 79.1                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060055</u>                           |
| LCS Lab ID: <u>LCS-92</u>                | Blank Sample ID: <u>PBLK-92</u>                   |
| LCS File ID: <u>GC28F-1632-33</u>        | Method Blank File ID: <u>GC28F-1632-32</u>        |
| LCS Inj Date: <u>06/03/2015 18:43:59</u> | Method Blank Inj Date: <u>06/03/2015 18:30:09</u> |
| LCS ID: <u>AS11507L</u>                  | Method Blank ID: <u>AS11507B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT<br>RECOVERY |
|--------------|--------------------------|--------------------------------|------------------------------|---|
| Aroclor 1242 | 0.250                    | 0.239                          | 95.8                         | 70.0-130                                      |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1  
PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060055</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-92</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11507B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1632-32</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/03/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/03/2015</u>  |
|  | Time Analyzed: <u>18:30:09</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-92(LAB CONTROL SPIKE) | AS11507L         | GC28F-1632-33  | 06/03/2015 18:43:59     |
| NRS-162.90-T150602083553  | AS11504          | GC28F-1633-10  | 06/04/2015 14:02:01     |
| NRS-186.00-T150602083826  | AS11505RR1       | GC28F-1633-32  | 06/04/2015 20:59:11     |
| NRS-187.70-T150602083654  | AS11506RR1       | GC28F-1633-33  | 06/04/2015 21:13:04     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060055</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060055-01</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150602083553</u> |
| Sample wt(Dry)/vol: <u>980 mL</u>                                      | Lab Sample ID: <u>AS11504</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-10</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/03/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0704                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0308                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |                     |                             |
|--------------------|--------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11504                  | Sample Amount (L) : | 0.9800                      |
| Sample ID:         | NRS-162.90-T150602083553 | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 2:02:01 PM EDT  | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:43:12 PM EDT    |
| Sample Set Name:   | GC28F_060415a            | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes             | Current Time:       | 10:44:59 PM US/Eastern      |
| Report Name:       | H2O rpt LIMS2 ug/L       | LIMS File ID:       | GC28F-1633-10 [m]           |

**Peak Results**

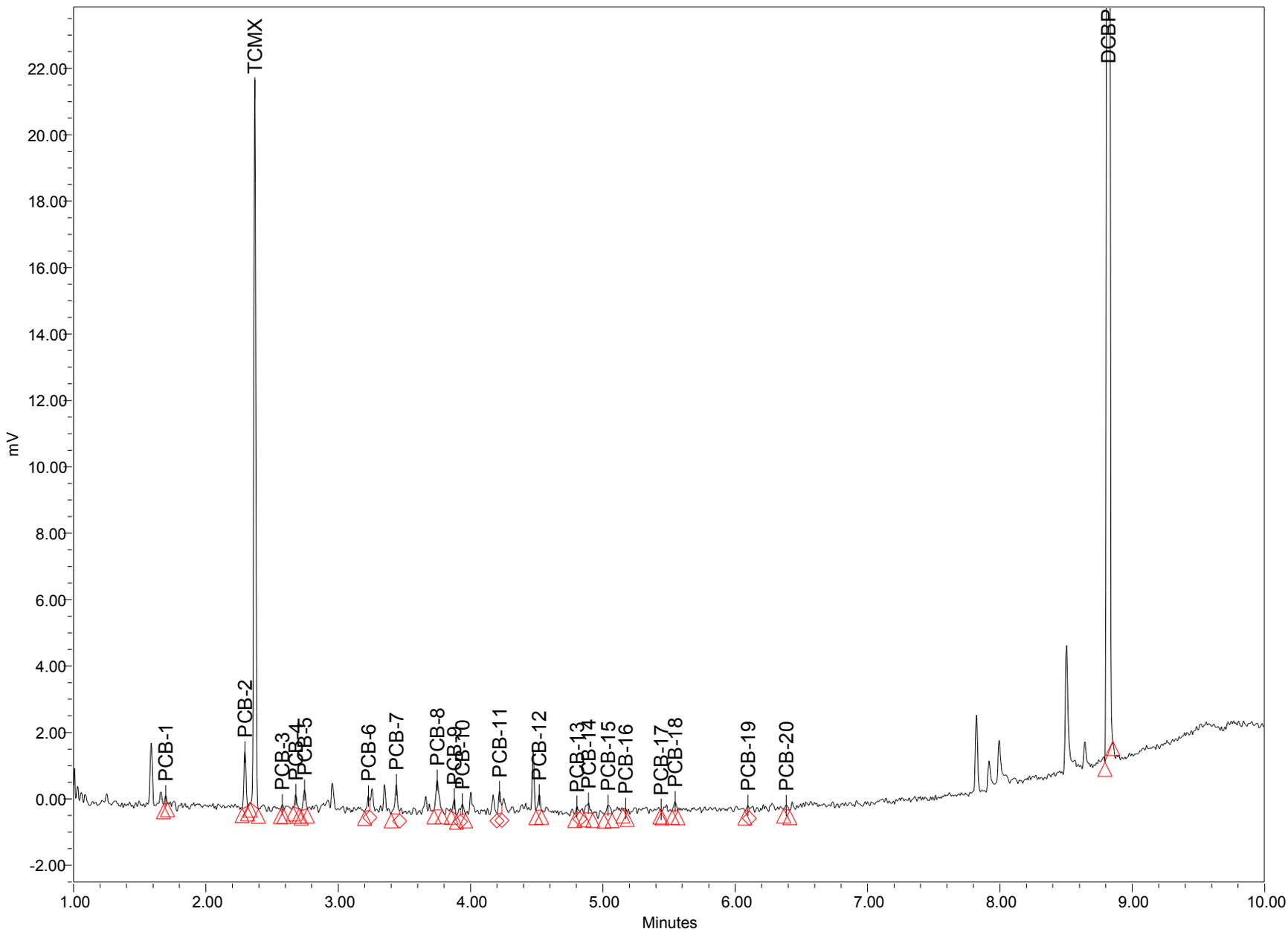
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.696          | bb               | 236           |                      |             |             |
| 2  | PCB-2     | 2.295          | bb               | 1912          |                      |             |             |
| 3  | TCMX      | 2.369          | bb               | 22923         | 4.692                | 93.8        |             |
| 4  | PCB-3     | 2.578          | bb               | 142           |                      |             |             |
| 5  | PCB-4     | 2.679          | bb               | 416           |                      |             |             |
| 6  | PCB-5     | 2.745          | bb               | 753           |                      |             |             |
| 7  | PCB-6     | 3.227          | bV               | 564           |                      |             |             |
| 8  | PCB-7     | 3.439          | bV               | 1239          |                      |             |             |
| 9  | PCB-8     | 3.748          | bb               | 1419          |                      |             |             |
| 10 | PCB-9     | 3.877          | bb               | 427           |                      |             |             |
| 11 | PCB-10    | 3.938          | Vb               | 441           |                      |             |             |
| 12 | PCB-11    | 4.219          | VV               | 848           |                      |             |             |
| 13 | PCB-12    | 4.519          | bb               | 559           |                      |             |             |
| 14 | PCB-13    | 4.804          | BV               | 205           |                      |             |             |
| 15 | PCB-14    | 4.892          | bb               | 632           |                      |             |             |
| 16 | PCB-15    | 5.039          | bb               | 520           |                      |             |             |
| 17 | PCB-16    | 5.172          | bb               | 85            |                      |             |             |
| 18 | PCB-17    | 5.440          | bb               | 15            |                      |             |             |
| 19 | PCB-18    | 5.545          | bb               | 353           |                      |             |             |
| 20 | PCB-19    | 6.096          | bV               | 194           |                      |             |             |
| 21 | PCB-20    | 6.386          | bb               | 195           |                      |             |             |
| 22 | DCBP      | 8.819          | bb               | 176655        | 42.804               |             | 85.6        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 4089.2222           | 4.684                | 0.02390     | 0.0255   | 0.00891  | NR     |      |
| 2 | A1221      | 3458.6650           | 13.808               | 0.07045     | 0.0255   | 0.00891  | X      | PB   |
| 3 | A1221-2    | 1546.5963           | 7.082                | 0.03613     | 0.0255   | 0.00891  | NR     |      |
| 4 | A1221-5    | 2705.8115           | 21.865               | 0.11155     | 0.0255   | 0.00891  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 4278.4296           | 9.799               | 0.04999     | 0.0255   | 0.00891  | NR     |      |
| 6  | A1232-8/9   | 2432.4037           | 11.465              | 0.05849     | 0.0255   | 0.00891  | NR     |      |
| 7  | A1242       | 4089.2222           | 6.041               | 0.03082     | 0.0255   | 0.00891  | X      | AD   |
| 8  | A1248       | 2763.9834           | 3.220               | 0.01643     | 0.0255   | 0.00891  | NR     |      |
| 9  | A1248-11/15 | 1396.5028           | 2.885               | 0.01472     | 0.0255   | 0.00891  | NR     |      |
| 10 | A1248-14/15 | 1611.8035           | 4.201               | 0.02143     | 0.0255   | 0.00891  | NR     |      |
| 11 | A1254       | 842.3527            | 1.028               | 0.00524     | 0.0255   | 0.00891  | NR     |      |
| 12 | A1254-17/18 | 473.7905            | 1.077               | 0.00550     | 0.0255   | 0.00891  | NR     |      |
| 13 | A1254-19/20 | 453.7840            | 0.872               | 0.00445     | 0.0255   | 0.00891  | NR     |      |
| 14 | A1254-20    | 647.6476            | 1.081               | 0.00552     | 0.0255   | 0.00891  | NR     |      |
| 15 | A1260       | 194.7051            | 0.045               | 0.00023     | 0.0255   | 0.00891  | NR     |      |
| 16 | A1260-23/24 | 194.7051            | 0.641               | 0.00327     | 0.0255   | 0.00891  | NR     |      |
| 17 | A1262       | 194.7051            |                     |             |          |          | NR     |      |



SampleName AS11504; Sample\_ID NRS-162.90-T150602083553



|                    |                          |                      |                       |
|--------------------|--------------------------|----------------------|-----------------------|
| Lab ID:            | AS11504                  | Current Date Time:   | 6/9/2015 14:47:09     |
| Sample ID:         | NRS-162.90-T150602083553 | LIMS File ID:        | GC28F-1633-10         |
| Matrix:            | Water                    | Calibration ID:      | 6976                  |
| Date Analyzed:     | 06/04/2015 2:02:01 PM    | Calibration Date(s): | 03/12/2015,03/13/2015 |
| Processing Method: | GC28F_LLCC_031215        |                      |                       |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{3458.664982 - -16.185578}{251.658479} = 13.8078 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{13.8078 \text{ ng/mL} * 5.0 \text{ mL} * 1}{980 \text{ mL}} = 0.0704 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060055</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060055-02RR1</u>           |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-186.00-T150602083826</u> |
| Sample wt(Dry)/vol:   | <u>960 mL</u>   | Lab Sample ID:   | <u>AS11505RR1</u>               |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1633-32</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/03/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/04/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0260                | U    |
| 11104-28-2 | Aroclor 1221  | 0.164                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0260                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0164                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0260                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0260                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0260                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |                     |                             |
|--------------------|--------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11505RR1               | Sample Amount (L) : | 0.9600                      |
| Sample ID:         | NRS-186.00-T150602083826 | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 8:59:11 PM EDT  | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:14:01 PM EDT    |
| Sample Set Name:   | GC28F_W_060415C          | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes             | Current Time:       | 10:38:48 PM US/Eastern      |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1633-32 [m]           |

**Peak Results**

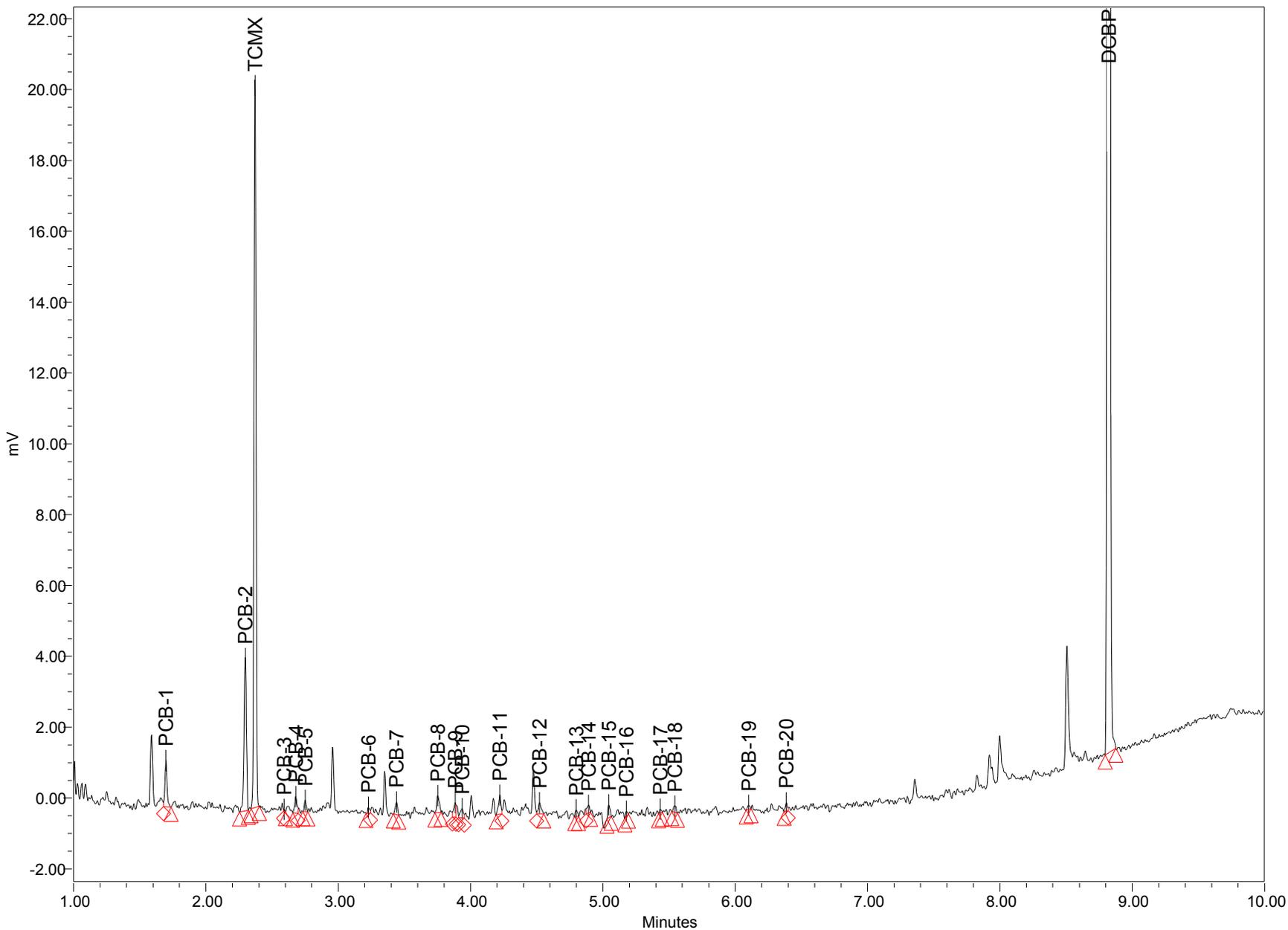
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | Vb               | 1468          |                      |             |             |
| 2  | PCB-2     | 2.297          | bb               | 5533          |                      |             |             |
| 3  | TCMX      | 2.371          | bb               | 21872         | 4.471                | 89.4        |             |
| 4  | PCB-3     | 2.591          | vb               | 30            |                      |             |             |
| 5  | PCB-4     | 2.679          | bv               | 571           |                      |             |             |
| 6  | PCB-5     | 2.750          | bb               | 325           |                      |             |             |
| 7  | PCB-6     | 3.228          | bV               | 179           |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 432           |                      |             |             |
| 9  | PCB-8     | 3.752          | bb               | 664           |                      |             |             |
| 10 | PCB-9     | 3.884          | vv               | 469           |                      |             |             |
| 11 | PCB-10    | 3.935          | VV               | 440           |                      |             |             |
| 12 | PCB-11    | 4.221          | bV               | 699           |                      |             |             |
| 13 | PCB-12    | 4.521          | Vb               | 474           |                      |             |             |
| 14 | PCB-13    | 4.798          | bb               | 204           |                      |             |             |
| 15 | PCB-14    | 4.892          | Vb               | 311           |                      |             |             |
| 16 | PCB-15    | 5.044          | bb               | 420           |                      |             |             |
| 17 | PCB-16    | 5.177          | bb               | 136           |                      |             |             |
| 18 | PCB-17    | 5.433          | bb               | 101           |                      |             |             |
| 19 | PCB-18    | 5.544          | bb               | 253           |                      |             |             |
| 20 | PCB-19    | 6.101          | bb               | 142           |                      |             |             |
| 21 | PCB-20    | 6.386          | bv               | 248           |                      |             |             |
| 22 | DCBP      | 8.822          | bb               | 159701        | 38.369               |             | 76.7        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 2182.8819           | 2.416                | 0.01258     | 0.0260   | 0.00910  | NR     |      |
| 2 | A1221      | 7927.4375           | 31.565               | 0.16440     | 0.0260   | 0.00910  | X      | PB   |
| 3 | A1221-2    | 2394.8683           | 10.627               | 0.05535     | 0.0260   | 0.00910  | NR     |      |
| 4 | A1221-5    | 7602.1056           | 60.669               | 0.31598     | 0.0260   | 0.00910  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 2329.2970           | 5.330               | 0.02776     | 0.0260   | 0.00910  | NR     |      |
| 6  | A1232-8/9   | 1196.9312           | 5.400               | 0.02813     | 0.0260   | 0.00910  | NR     |      |
| 7  | A1242       | 2182.8819           | 3.141               | 0.01636     | 0.0260   | 0.00910  | X      | AD,J |
| 8  | A1248       | 2107.4198           | 2.331               | 0.01214     | 0.0260   | 0.00910  | NR     |      |
| 9  | A1248-11/15 | 988.7097            | 2.036               | 0.01061     | 0.0260   | 0.00910  | NR     |      |
| 10 | A1248-14/15 | 1376.7708           | 3.541               | 0.01844     | 0.0260   | 0.00910  | NR     |      |
| 11 | A1254       | 880.1402            | 1.062               | 0.00553     | 0.0260   | 0.00910  | NR     |      |
| 12 | A1254-17/18 | 526.2130            | 1.158               | 0.00603     | 0.0260   | 0.00910  | NR     |      |
| 13 | A1254-19/20 | 489.8479            | 0.928               | 0.00483     | 0.0260   | 0.00910  | NR     |      |
| 14 | A1254-20    | 631.7154            | 1.063               | 0.00553     | 0.0260   | 0.00910  | NR     |      |
| 15 | A1260       | 248.4248            | 0.089               | 0.00046     | 0.0260   | 0.00910  | NR     |      |
| 16 | A1260-23/24 | 248.4248            | 0.694               | 0.00362     | 0.0260   | 0.00910  | NR     |      |
| 17 | A1262       | 248.4248            |                     |             |          |          | NR     |      |



**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060055</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060055-03RR1</u>              |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150602083654</u> |
| Sample wt(Dry)/vol: <u>940 mL</u>                                      | Lab Sample ID: <u>AS11506RR1</u>           |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-33</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/03/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0266                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0306                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0266                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0108                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0266                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0266                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0266                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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|                    |                          |                     |                             |
|--------------------|--------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11506RR1               | Sample Amount (L) : | 0.9400                      |
| Sample ID:         | NRS-187.70-T150602083654 | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 9:13:04 PM EDT  | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/4/2015 10:08:26 PM EDT    |
| Sample Set Name:   | GC28F_W_060415C          | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes             | Current Time:       | 10:38:53 PM US/Eastern      |
| Report Name:       | H2O rpt LIMS2 ug/L       | LIMS File ID:       | GC28F-1633-33 [m]           |

**Peak Results**

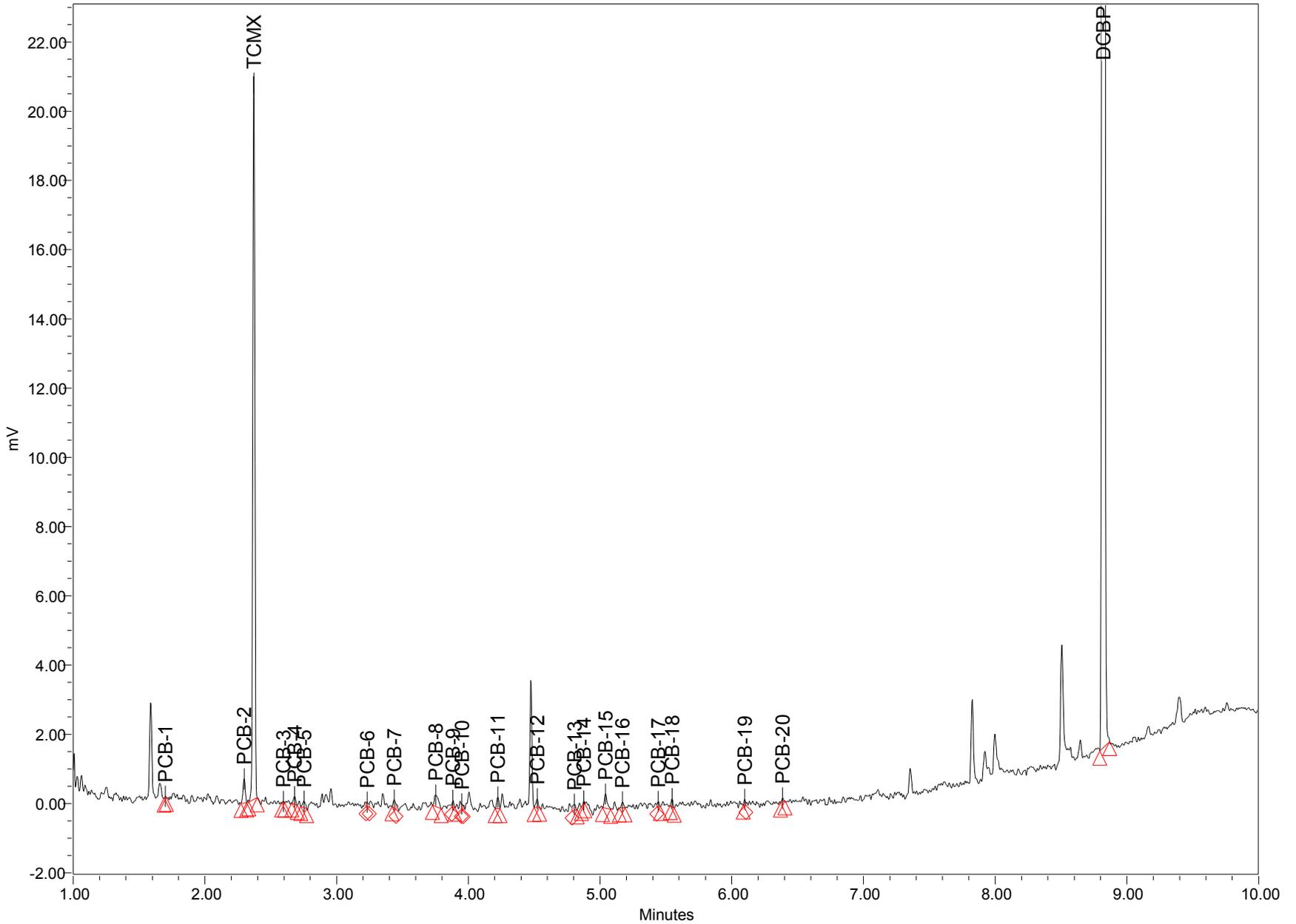
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.700          | bb               | 15            |                      |             |             |
| 2  | PCB-2     | 2.298          | bb               | 835           |                      |             |             |
| 3  | TCMX      | 2.371          | bb               | 22213         | 4.543                | 90.9        |             |
| 4  | PCB-3     | 2.595          | bb               | 36            |                      |             |             |
| 5  | PCB-4     | 2.681          | bb               | 257           |                      |             |             |
| 6  | PCB-5     | 2.752          | bb               | 288           |                      |             |             |
| 7  | PCB-6     | 3.232          | vv               | 146           |                      |             |             |
| 8  | PCB-7     | 3.438          | bV               | 287           |                      |             |             |
| 9  | PCB-8     | 3.753          | bb               | 731           |                      |             |             |
| 10 | PCB-9     | 3.884          | vb               | 175           |                      |             |             |
| 11 | PCB-10    | 3.951          | vV               | 108           |                      |             |             |
| 12 | PCB-11    | 4.223          | bb               | 387           |                      |             |             |
| 13 | PCB-12    | 4.523          | bb               | 263           |                      |             |             |
| 14 | PCB-13    | 4.805          | Vb               | 264           |                      |             |             |
| 15 | PCB-14    | 4.876          | bb               | 58            |                      |             |             |
| 16 | PCB-15    | 5.042          | bb               | 609           |                      |             |             |
| 17 | PCB-16    | 5.171          | bb               | 182           |                      |             |             |
| 18 | PCB-17    | 5.442          | vb               | 155           |                      |             |             |
| 19 | PCB-18    | 5.547          | bb               | 203           |                      |             |             |
| 20 | PCB-19    | 6.099          | bv               | 122           |                      |             |             |
| 21 | PCB-20    | 6.386          | bb               | 102           |                      |             |             |
| 22 | DCBP      | 8.821          | bb               | 164162        | 39.536               |             | 79.1        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1446.9957           | 1.541                | 0.00820     | 0.0266   | 0.00929  | NR     |      |
| 2 | A1221      | 1430.9869           | 5.751                | 0.03059     | 0.0266   | 0.00929  | X      | PB   |
| 3 | A1221-2    | 596.0067            | 3.109                | 0.01654     | 0.0266   | 0.00929  | NR     |      |
| 4 | A1221-5    | 1143.2088           | 9.481                | 0.05043     | 0.0266   | 0.00929  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 1589.1788           | 3.633               | 0.01933     | 0.0266   | 0.00929  | NR     |      |
| 6  | A1232-8/9   | 683.1312            | 2.878               | 0.01531     | 0.0266   | 0.00929  | NR     |      |
| 7  | A1242       | 1446.9957           | 2.022               | 0.01076     | 0.0266   | 0.00929  | X      | AD,J |
| 8  | A1248       | 1580.7873           | 1.619               | 0.00861     | 0.0266   | 0.00929  | NR     |      |
| 9  | A1248-11/15 | 584.3359            | 1.195               | 0.00636     | 0.0266   | 0.00929  | NR     |      |
| 10 | A1248-14/15 | 913.9798            | 2.241               | 0.01192     | 0.0266   | 0.00929  | NR     |      |
| 11 | A1254       | 762.9058            | 0.956               | 0.00509     | 0.0266   | 0.00929  | NR     |      |
| 12 | A1254-17/18 | 405.5258            | 0.972               | 0.00517     | 0.0266   | 0.00929  | NR     |      |
| 13 | A1254-19/20 | 538.9984            | 1.004               | 0.00534     | 0.0266   | 0.00929  | NR     |      |
| 14 | A1254-20    | 661.2374            | 1.097               | 0.00584     | 0.0266   | 0.00929  | NR     |      |
| 15 | A1260       | 101.6684            |                     |             | 0.0266   | 0.00929  | NR     |      |
| 16 | A1260-23/24 | 101.6684            | 0.547               | 0.00291     | 0.0266   | 0.00929  | NR     |      |
| 17 | A1262       | 101.6684            |                     |             |          |          | NR     |      |



SampleName AS11506RR1; Sample\_ID NRS-187.70-T150602083654

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060055

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060055

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1232 50 PPB              | CS320603A   | GC28F-1632-30        | 06/03/2015 18:02:18        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150603B10   | GC28F-1632-31        | 06/03/2015 18:16:15        | 2.37                       | 8.82 |
| 58   | PBLK-92(METHOD BLANK)     | AS11507B    | GC28F-1632-32        | 06/03/2015 18:30:09        | 2.37                       | 8.82 |
| 59   | LCS-92(LAB CONTROL SPIKE) | AS11507L    | GC28F-1632-33        | 06/03/2015 18:43:59        | 2.37                       | 8.82 |
| 60   | ZZZZZ                     | ZZZZZ       | GC28F-1632-34        | 06/03/2015 18:57:36        | 2.37                       | 8.82 |
| 61   | ZZZZZ                     | ZZZZZ       | GC28F-1632-35        | 06/03/2015 19:11:46        | 2.37                       | 8.82 |
| 62   | ZZZZZ                     | ZZZZZ       | GC28F-1632-36        | 06/03/2015 19:25:46        | 2.37                       | 8.82 |
| 63   | ZZZZZ                     | ZZZZZ       | GC28F-1632-37        | 06/03/2015 19:39:37        | 2.37                       | 8.82 |
| 64   | ZZZZZ                     | ZZZZZ       | GC28F-1632-38        | 06/03/2015 19:53:35        | 2.37                       | 8.82 |
| 65   | ZZZZZ                     | ZZZZZ       | GC28F-1632-39        | 06/03/2015 20:07:32        | 2.37                       | 8.82 |
| 66   | ZZZZZ                     | ZZZZZ       | GC28F-1632-40        | 06/03/2015 20:21:22        | 2.37                       | 8.82 |
| 67   | A1242 50 PPB              | CS420603A   | GC28F-1632-41        | 06/03/2015 20:35:14        | 2.37                       | 8.82 |
| 68   | HEXANE BLANK-SURR         | 150603B12   | GC28F-1632-42        | 06/03/2015 20:48:49        | 2.37                       | 8.82 |
| 69   | A1221 50 PPB              | CS210604A   | GC28F-1633-6         | 06/04/2015 10:51:57        | 2.37                       | 8.82 |
| 70   | HEXANE BLANK-SURR         | 150604B04   | GC28F-1633-7         | 06/04/2015 11:05:34        | 2.37                       | 8.82 |
| 71   | ZZZZZ                     | ZZZZZ       | GC28F-1633-8         | 06/04/2015 13:34:09        | 2.38                       | 8.83 |
| 72   | ZZZZZ                     | ZZZZZ       | GC28F-1633-9         | 06/04/2015 13:47:59        | 2.38                       | 8.83 |
| 73   | NRS-162.90-T150602083553  | AS11504     | GC28F-1633-10        | 06/04/2015 14:02:01        | 2.37                       | 8.82 |
| 74   | A1232 50 PPB              | CS320604A   | GC28F-1633-14        | 06/04/2015 15:15:47        | 2.38                       | 8.82 |
| 75   | HEXANE BLANK-SURR         | 150604B05   | GC28F-1633-15        | 06/04/2015 15:29:47        | 2.37                       | 8.82 |
| 76   | ZZZZZ                     | ZZZZZ       | GC28F-1633-19        | 06/04/2015 17:21:27        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060055

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                          |               |                      |                            |                            |
|--|--------------------------|---------------|----------------------|----------------------------|----------------------------|
|  |                          |               | TCMX RT: <u>2.38</u> |                            |                            |
|  |                          |               | DCBP RT: <u>8.83</u> |                            |                            |
| CLIENT SAMPLE ID   | LAB SAMPLE ID            | LAB FILE ID   | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |
| 77   | ZZZZZ                    | GC28F-1633-20 | 06/04/2015 17:35:19  | 2.37                       | 8.82                       |
| 78   | ZZZZZ                    | GC28F-1633-21 | 06/04/2015 17:49:10  | 2.37                       | 8.82                       |
| 79   | ZZZZZ                    | GC28F-1633-28 | 06/04/2015 20:03:30  | 2.37                       | 8.82                       |
| 80   | ZZZZZ                    | GC28F-1633-29 | 06/04/2015 20:17:30  | 2.37                       | 8.82                       |
| 81   | A1254 50 PPB             | GC28F-1633-30 | 06/04/2015 20:31:19  | 2.37                       | 8.82                       |
| 82   | HEXANE BLANK-SURR        | GC28F-1633-31 | 06/04/2015 20:45:18  | 2.37                       | 8.82                       |
| 83   | NRS-186.00-T150602083826 | GC28F-1633-32 | 06/04/2015 20:59:11  | 2.37                       | 8.82                       |
| 84   | NRS-187.70-T150602083654 | GC28F-1633-33 | 06/04/2015 21:13:04  | 2.37                       | 8.82                       |
| 85   | A1260 50 PPB             | GC28F-1633-34 | 06/04/2015 21:27:03  | 2.37                       | 8.82                       |
| 86   | HEXANE BLANK-SURR        | GC28F-1633-35 | 06/04/2015 21:40:38  | 2.37                       | 8.82                       |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060055

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060055

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

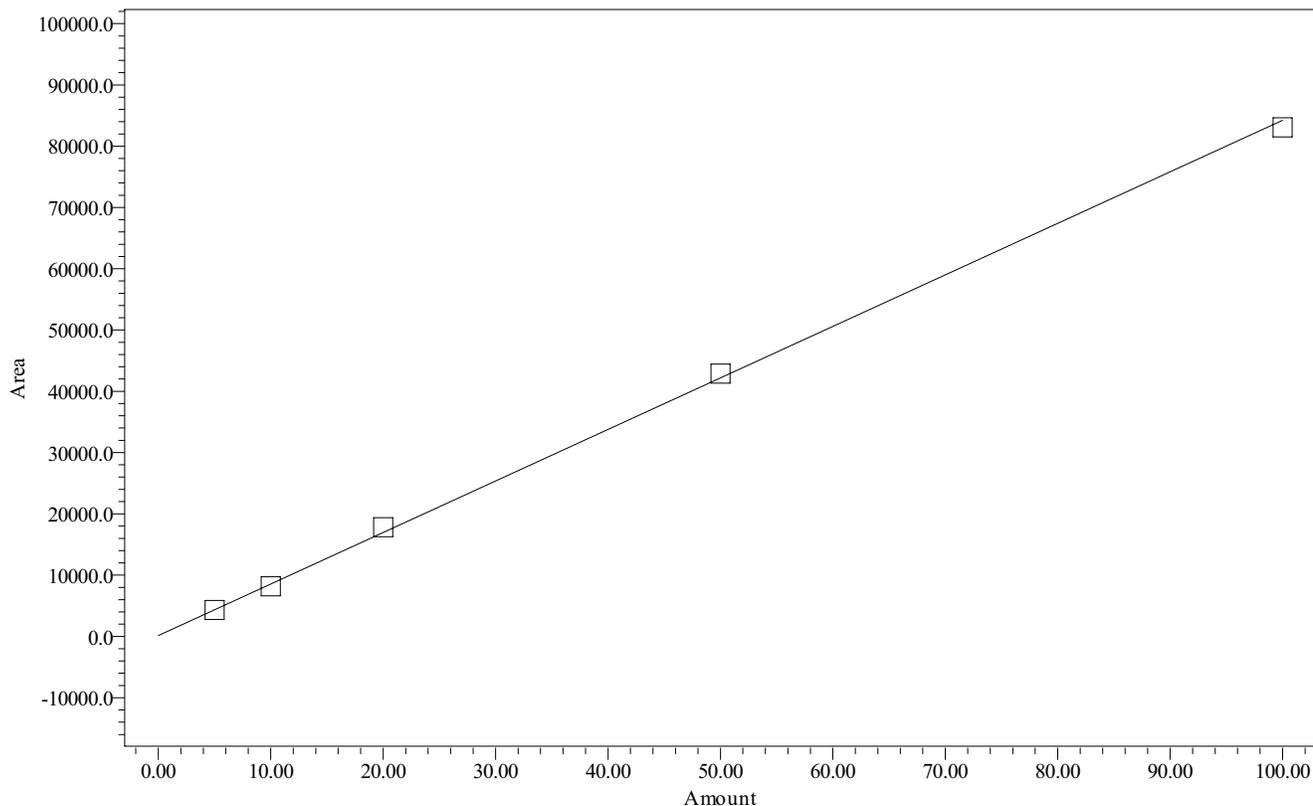
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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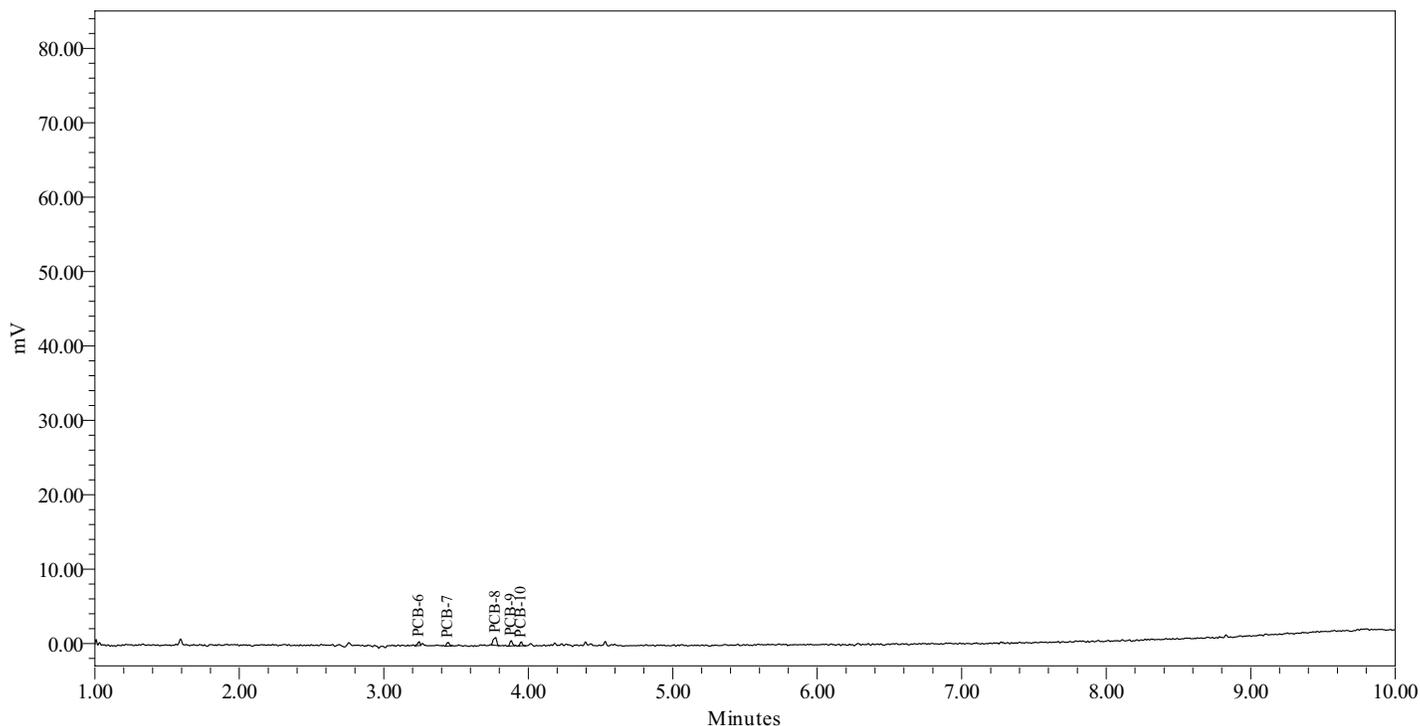
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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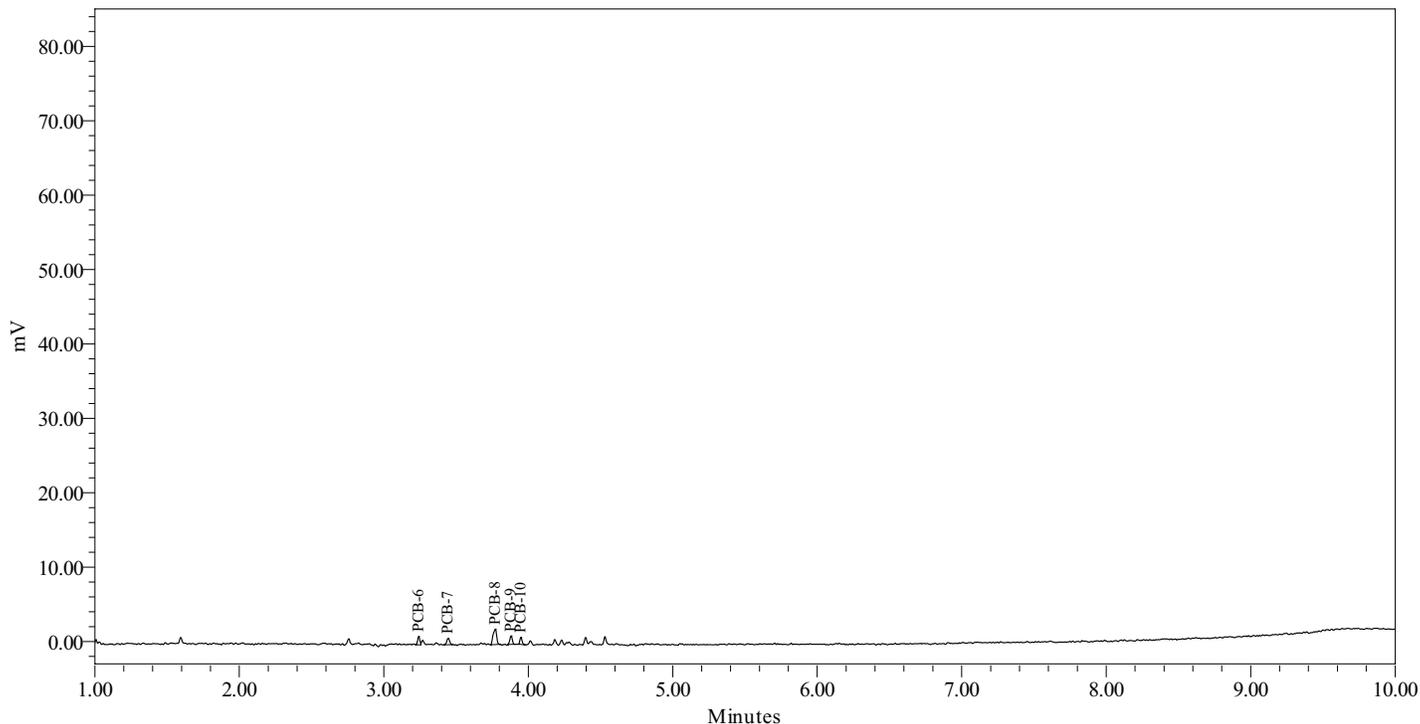
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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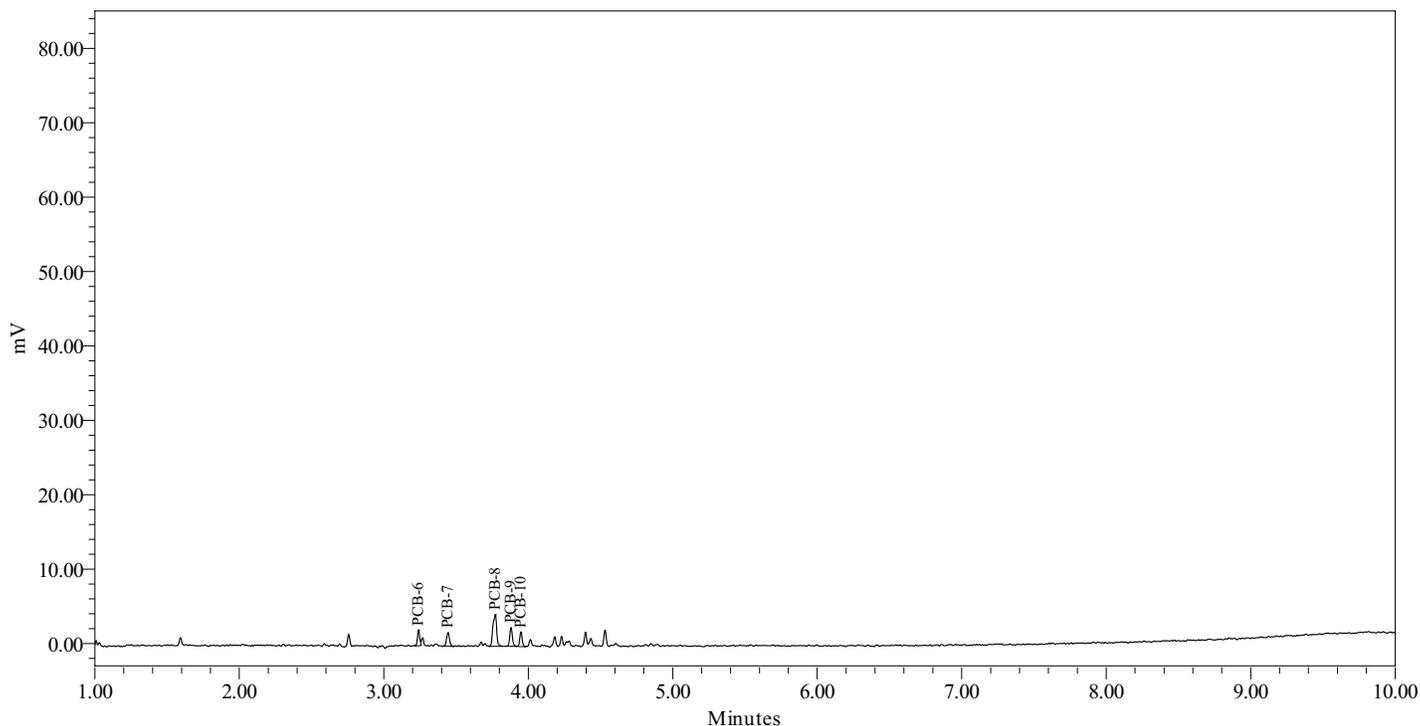
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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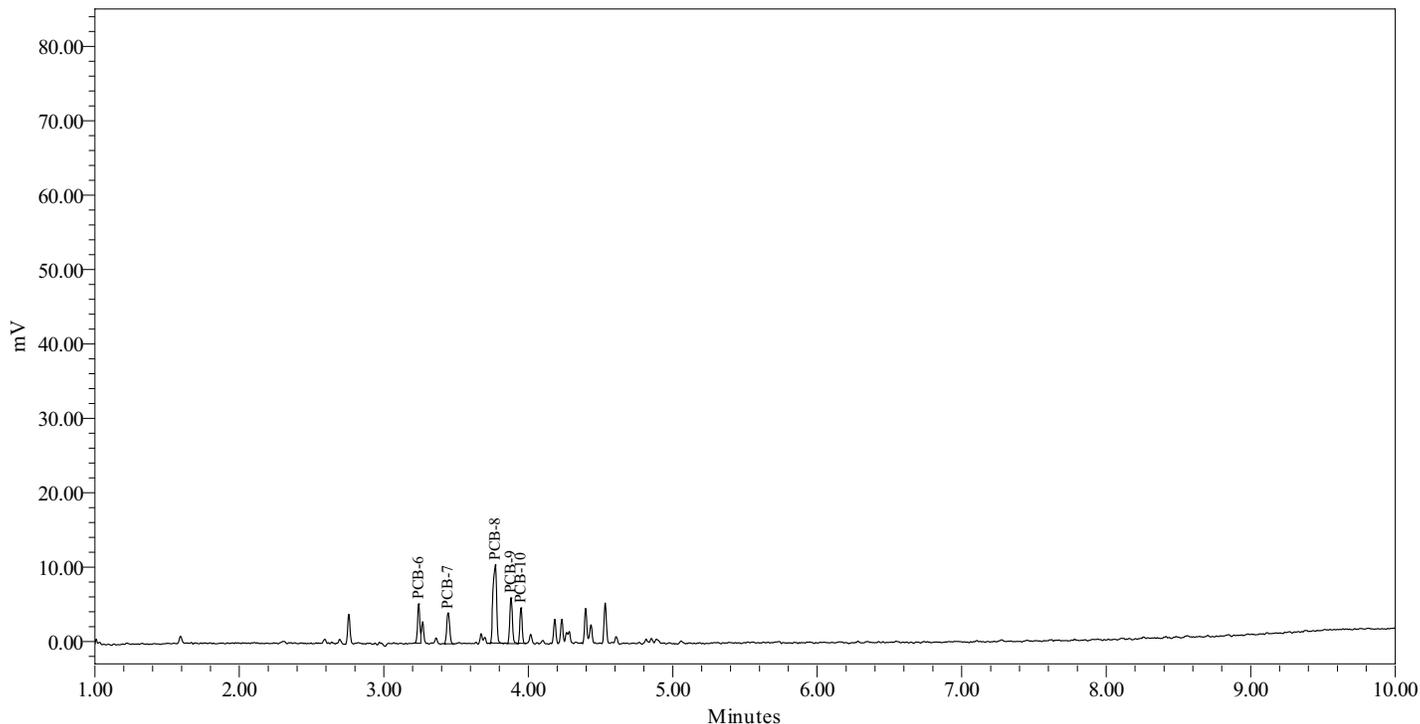
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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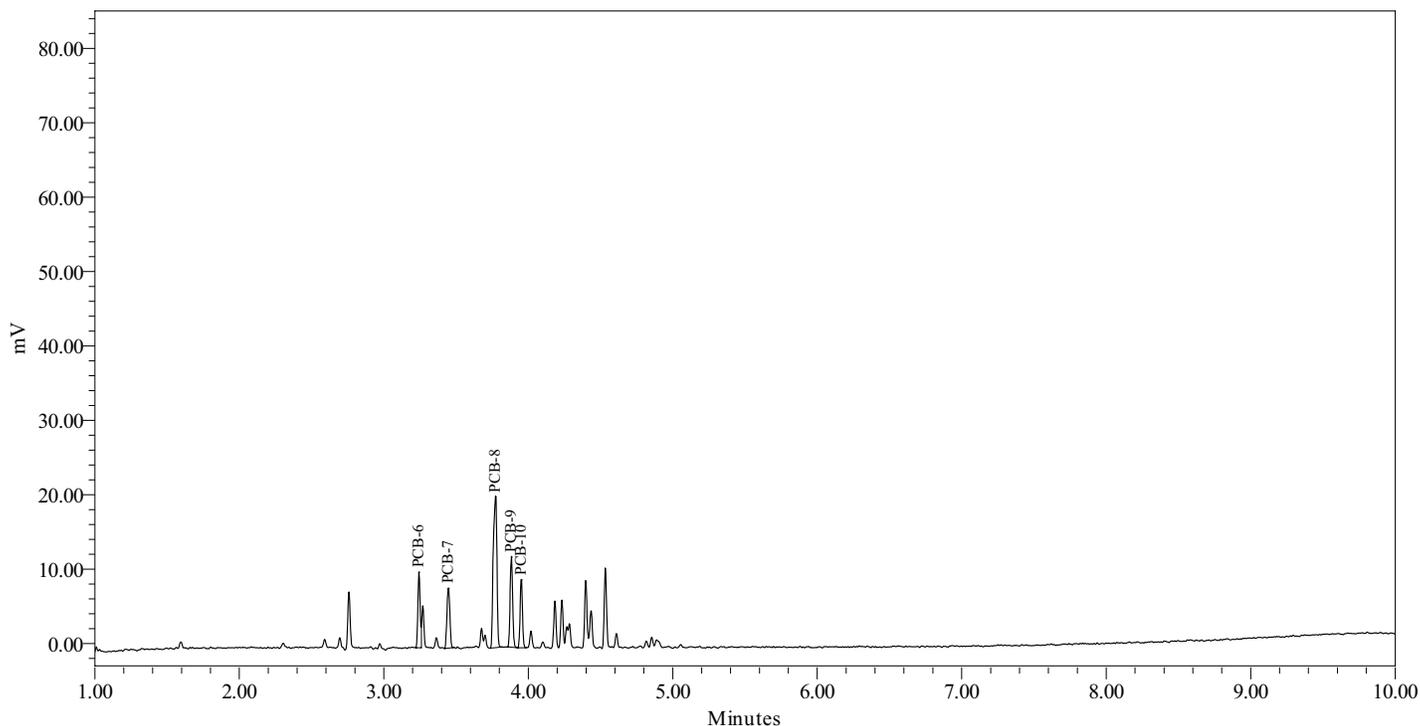
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

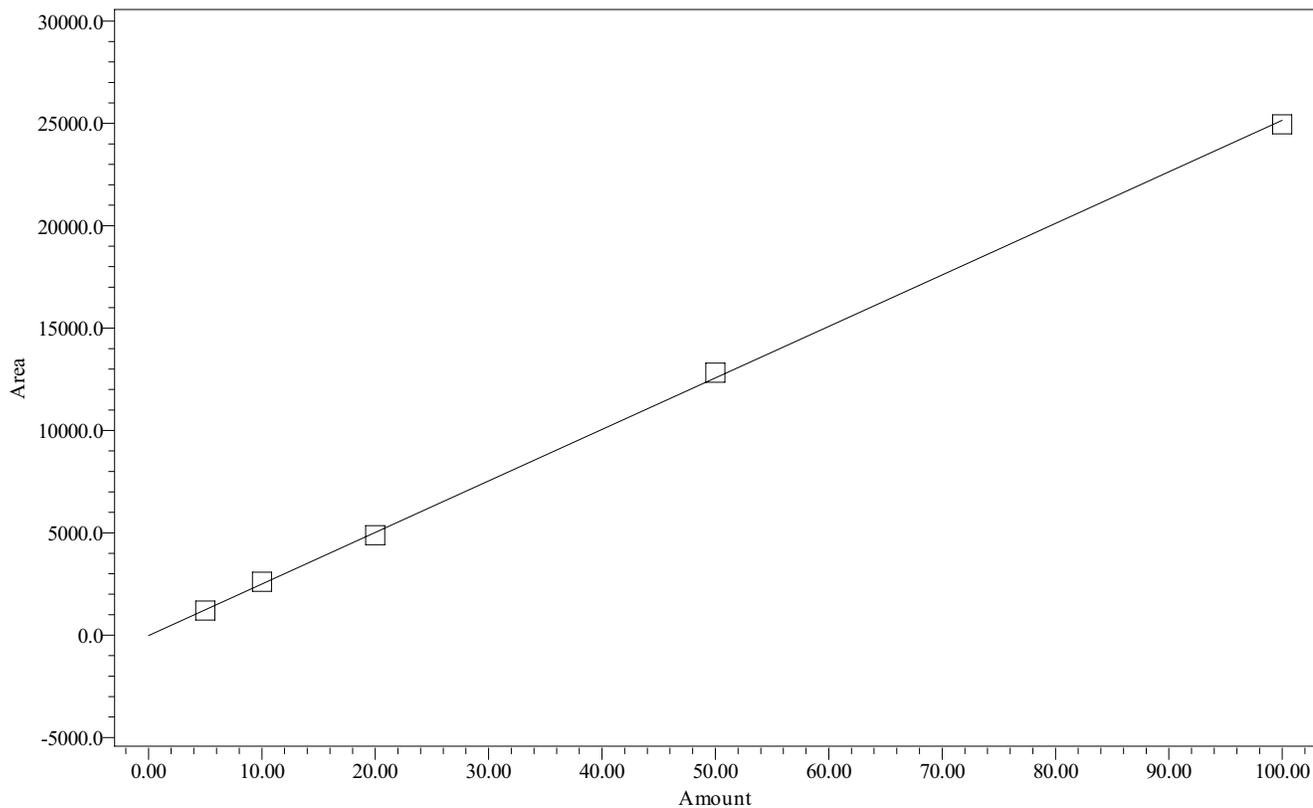
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

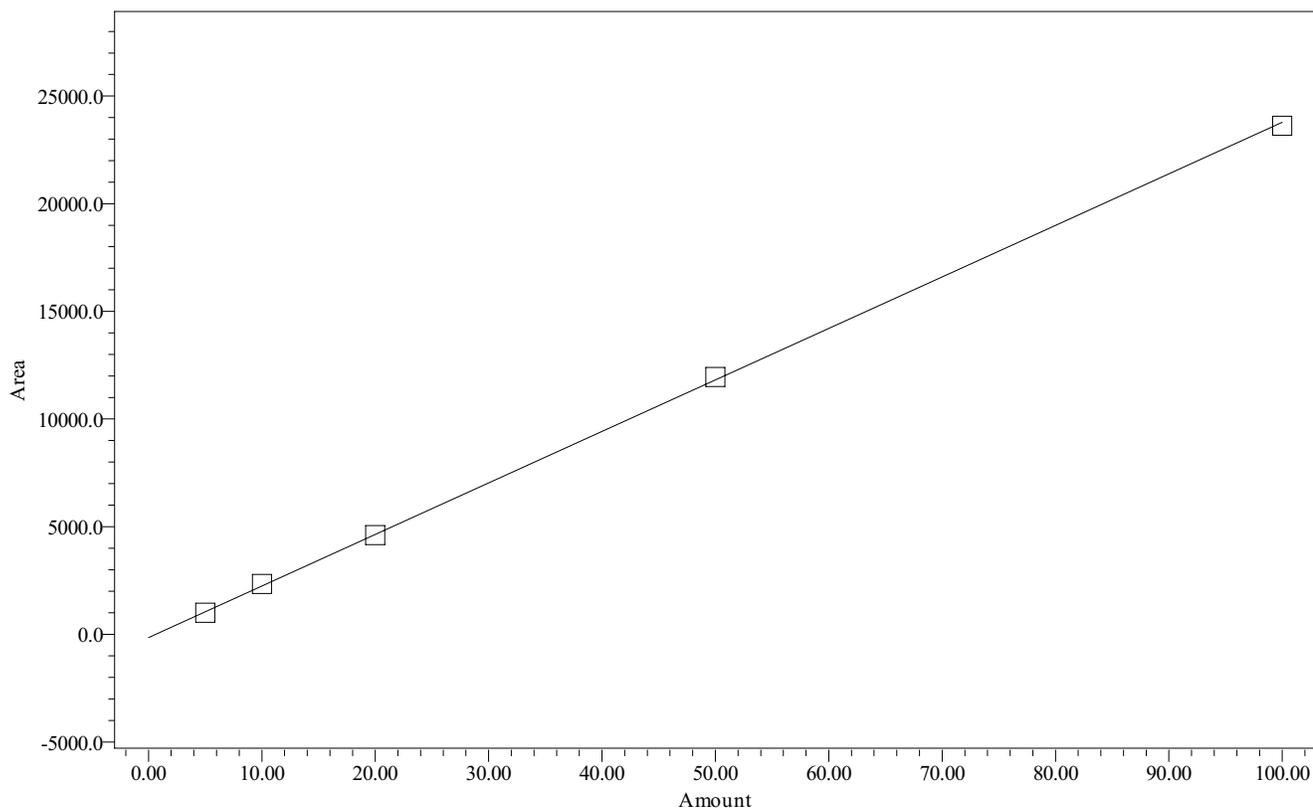
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



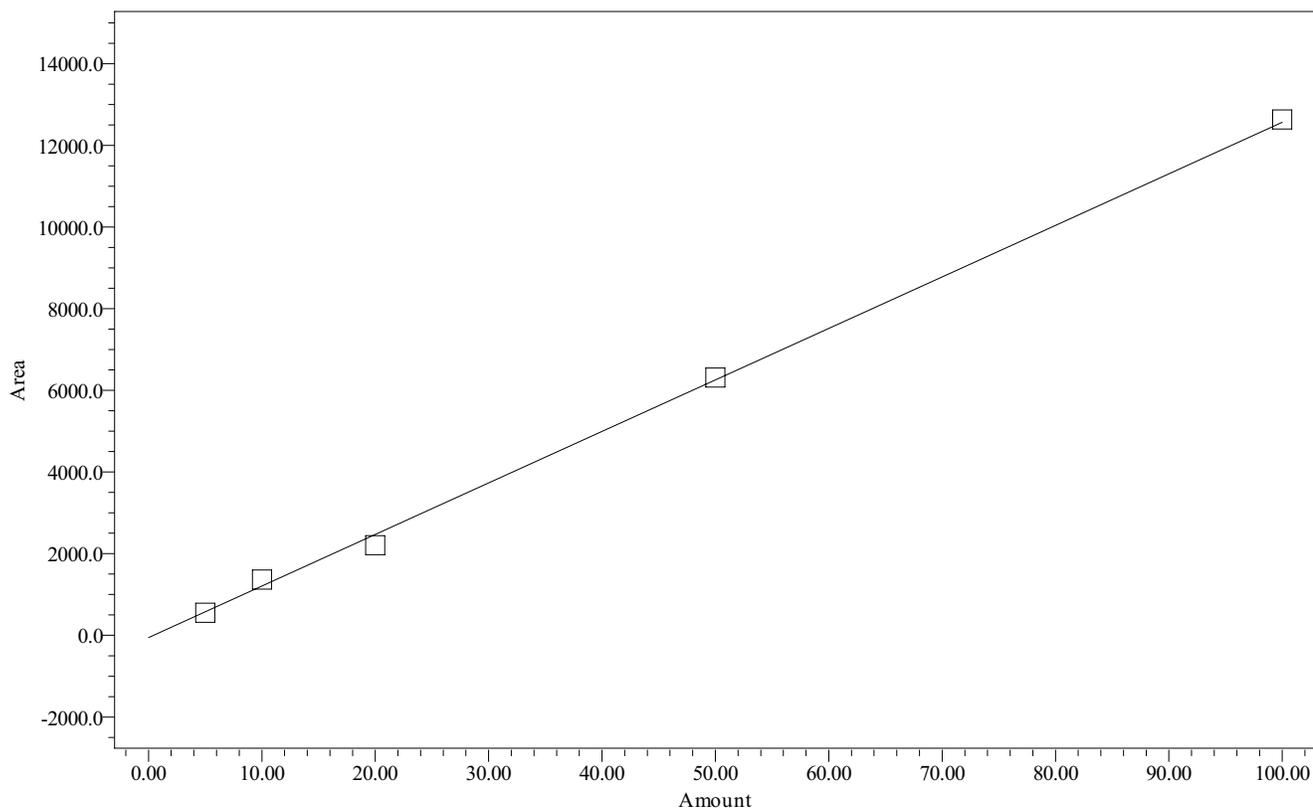
Point Table  
Peak: A1221-2

|   | Name     | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00          | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00         | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00         | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00         | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00        | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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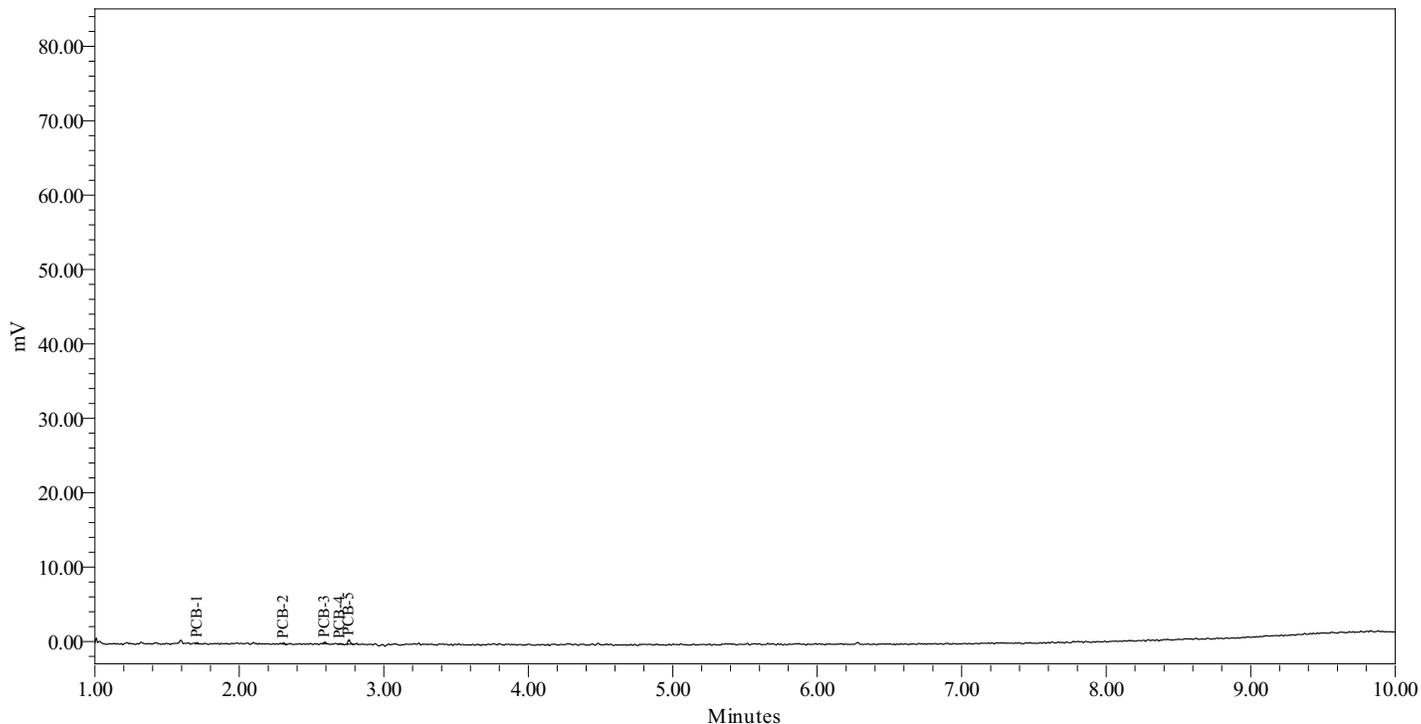
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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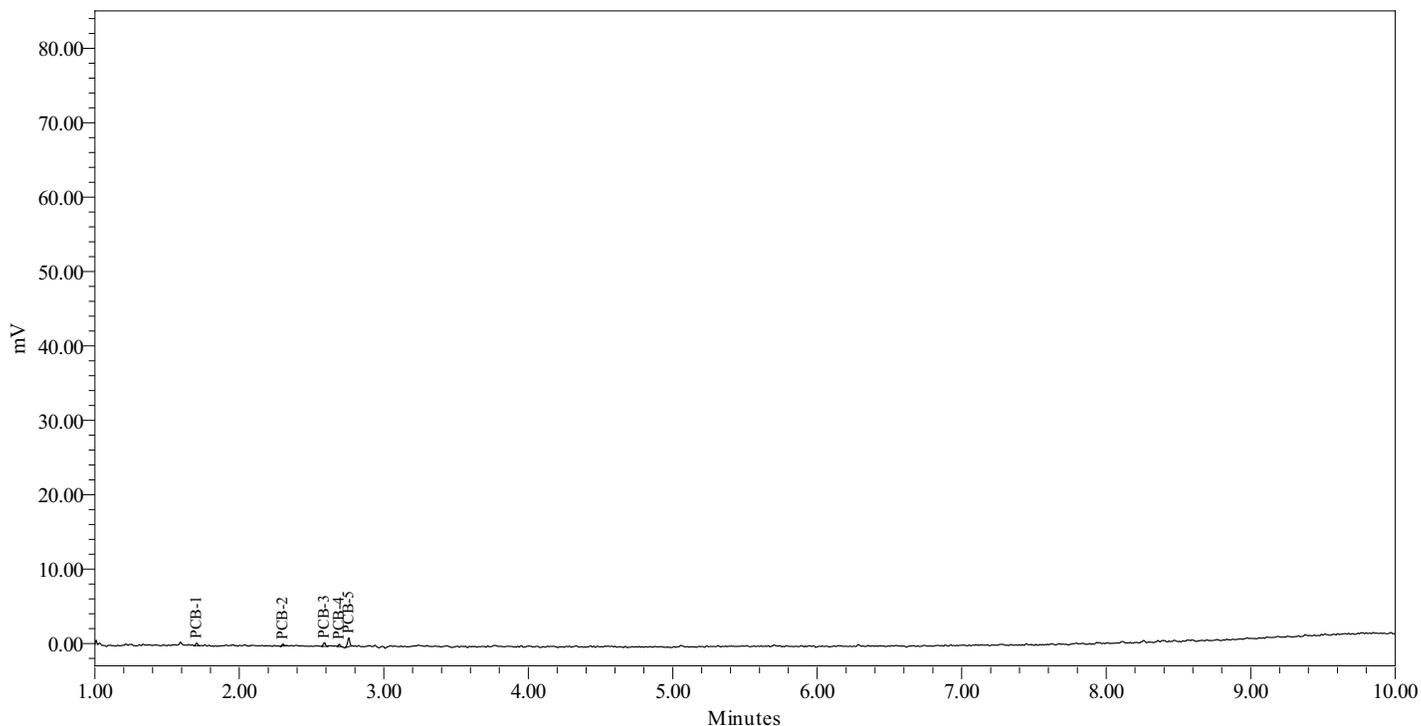
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.703          | bb               | 323           |
| 2 | PCB-2     | 2.301          | bb               | 272           |
| 3 | PCB-3     | 2.588          | bb               | 517           |
| 4 | PCB-4     | 2.691          | bb               | 256           |
| 5 | PCB-5     | 2.757          | bb               | 1247          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1221      | 2615                | 10.000               |
| 2 | A1221-2    | 2343                | 10.000               |
| 3 | A1221-5    | 1368                | 10.000               |
| 4 | A1232      | 1247                |                      |
| 5 | A1232-8/9  | 1247                |                      |



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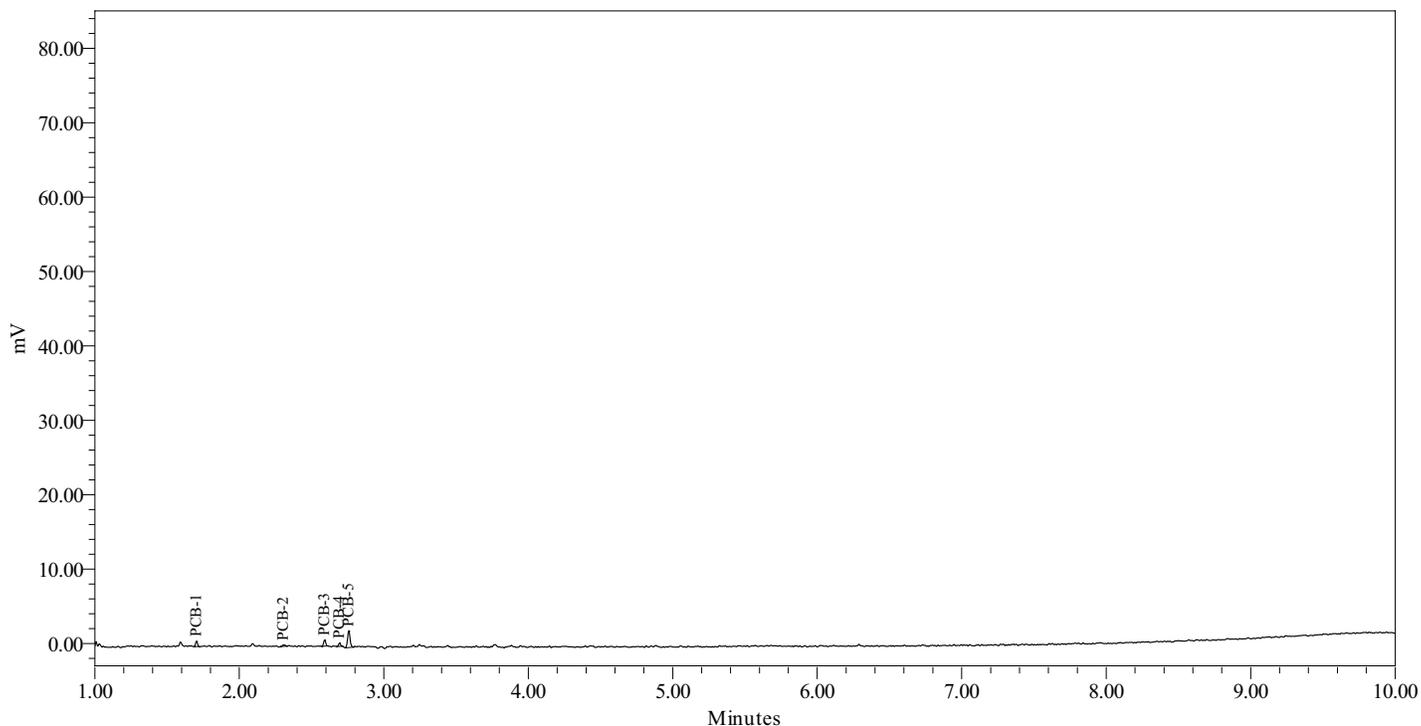
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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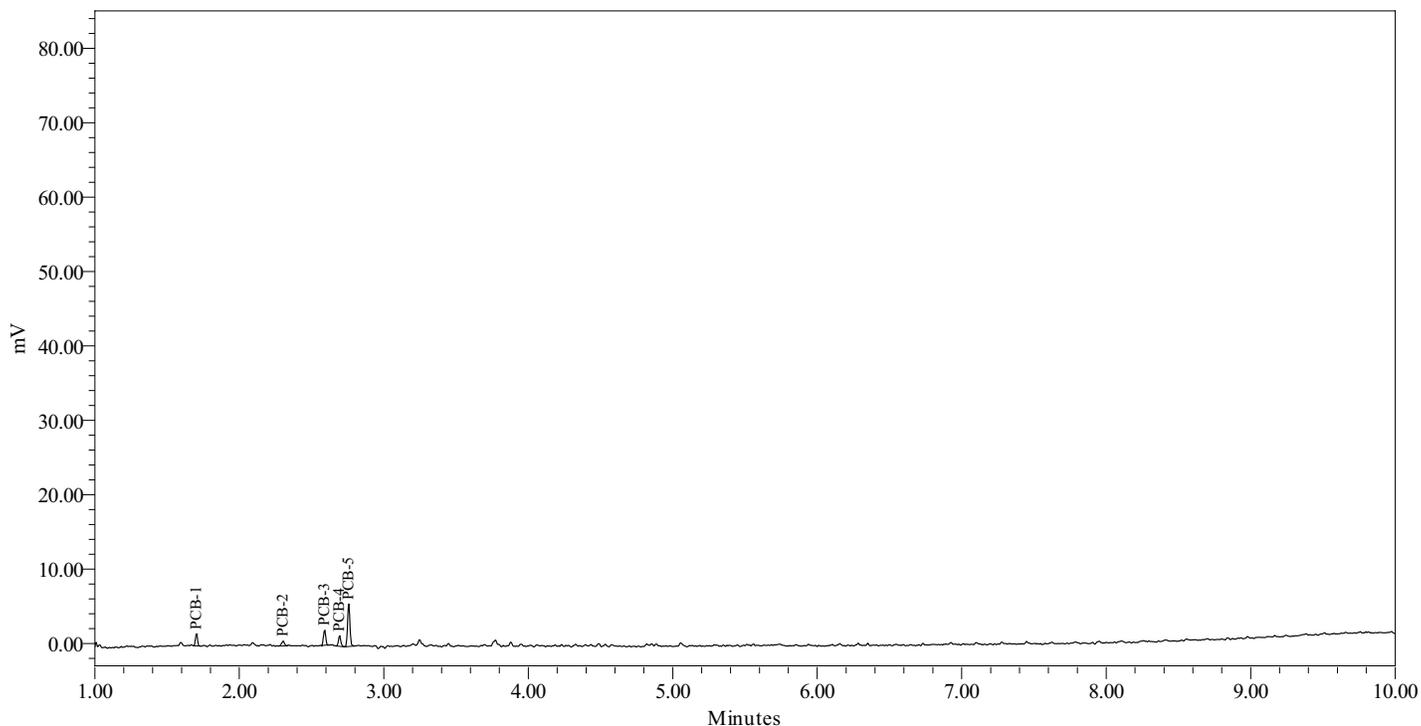
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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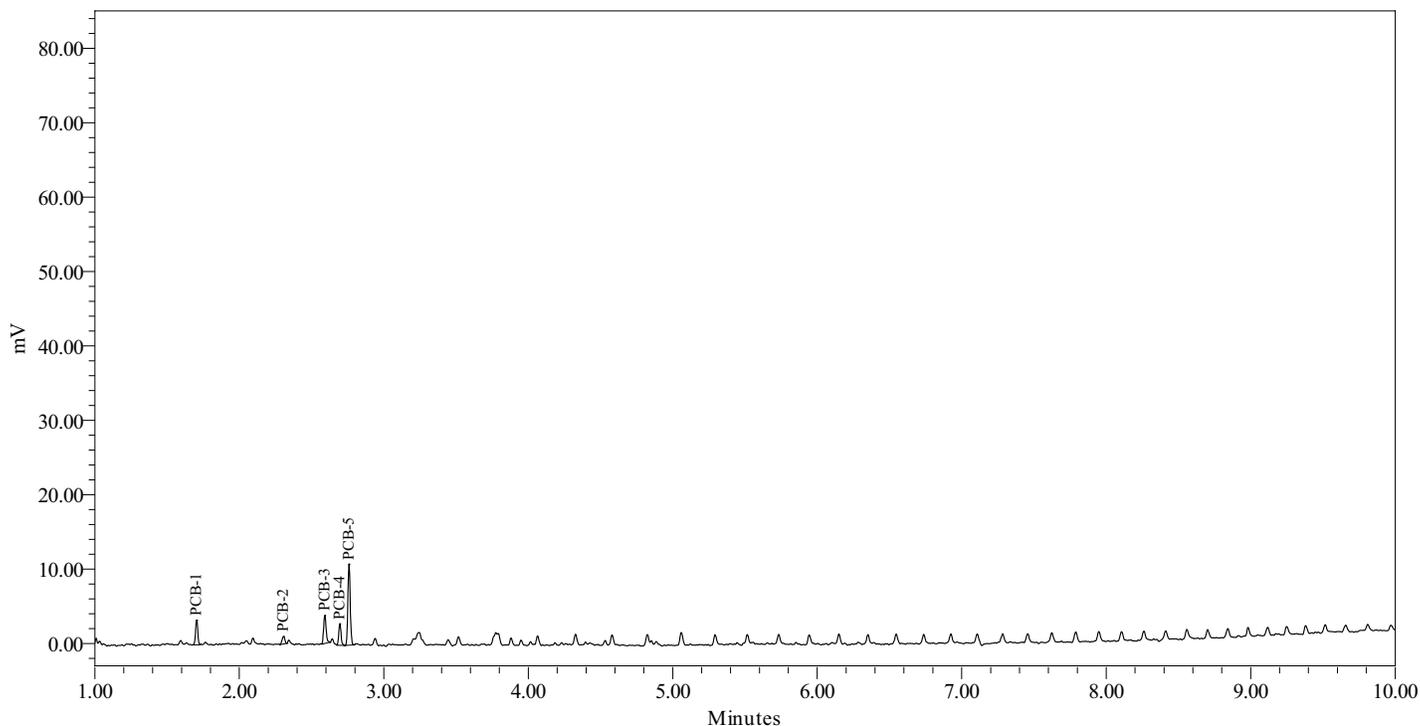
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

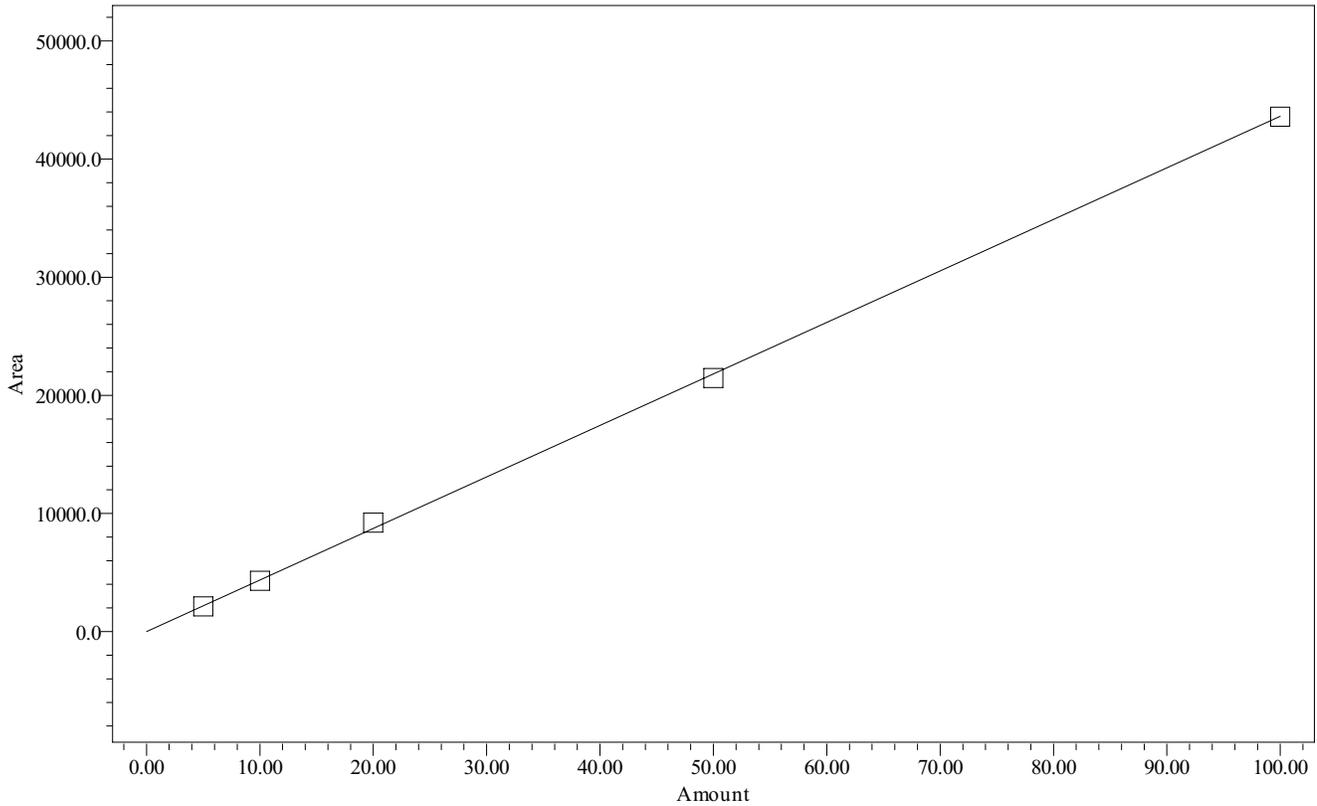
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

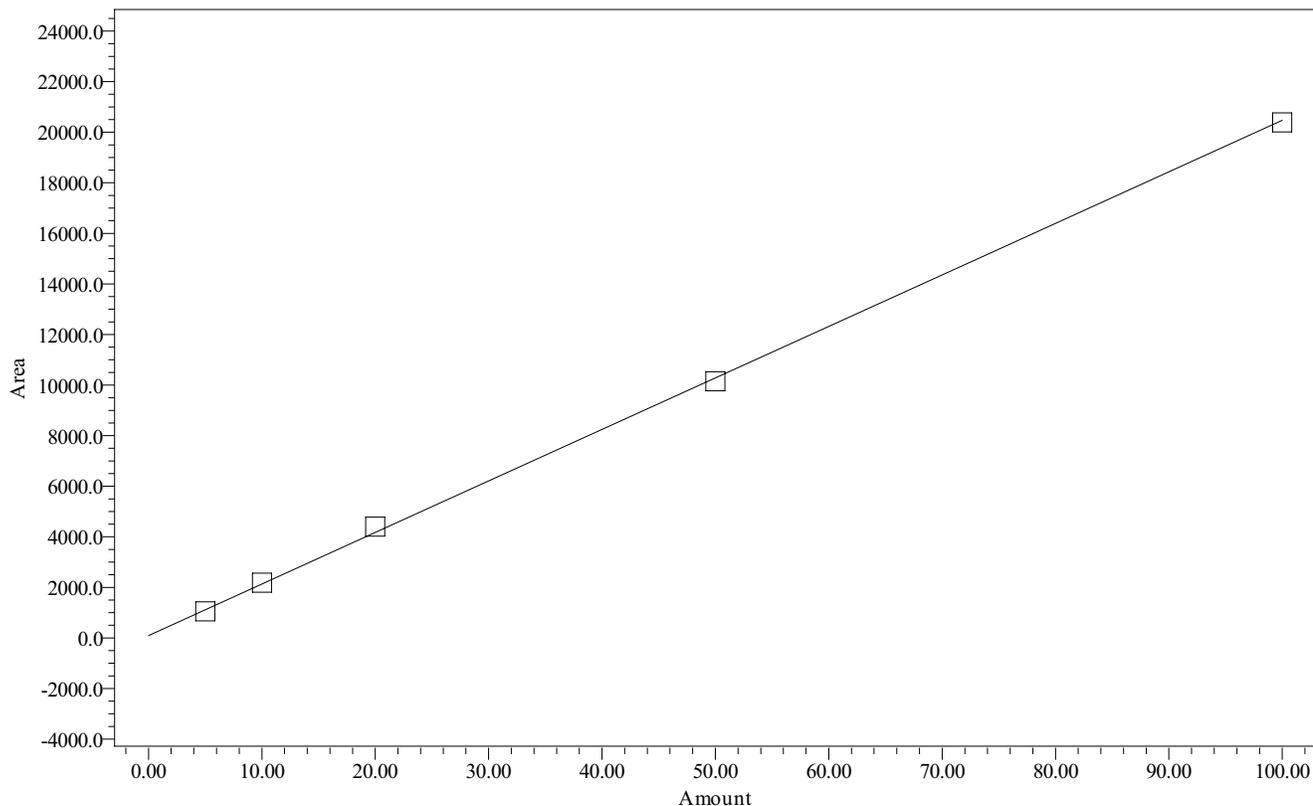
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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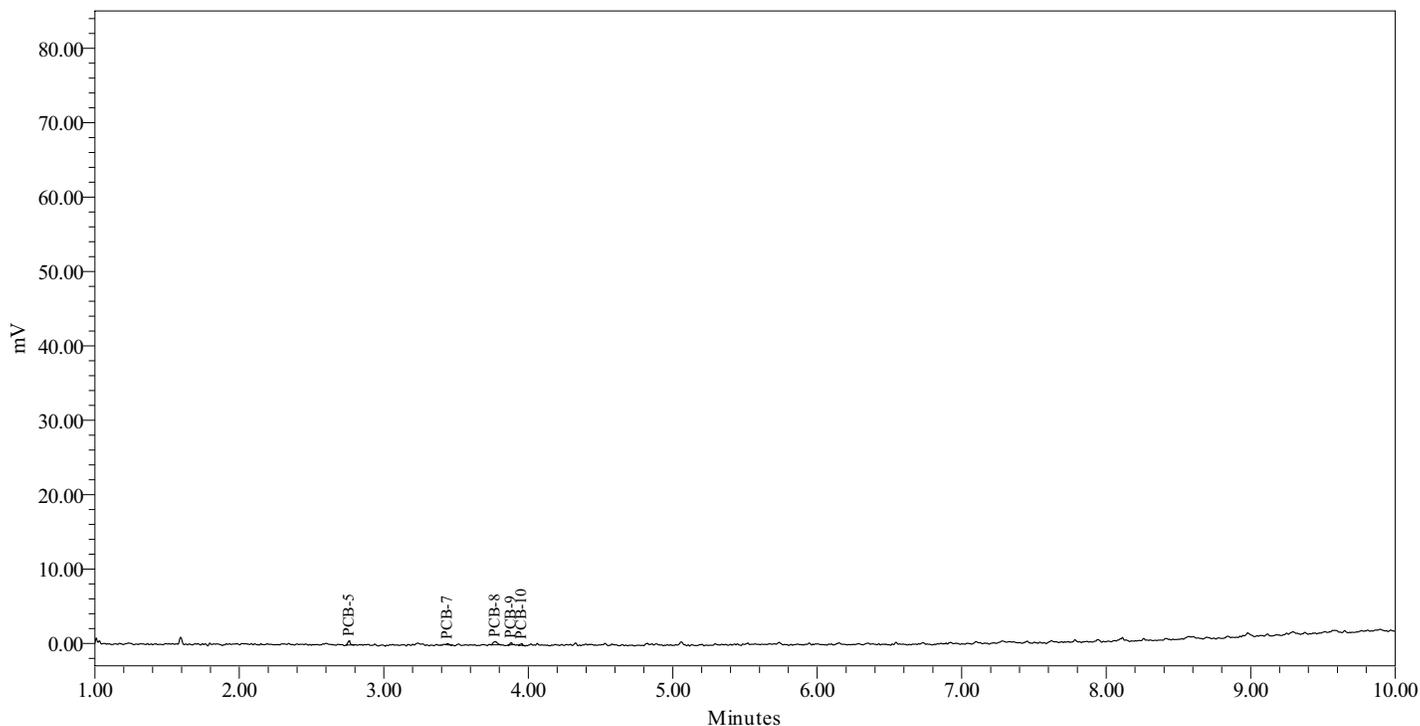
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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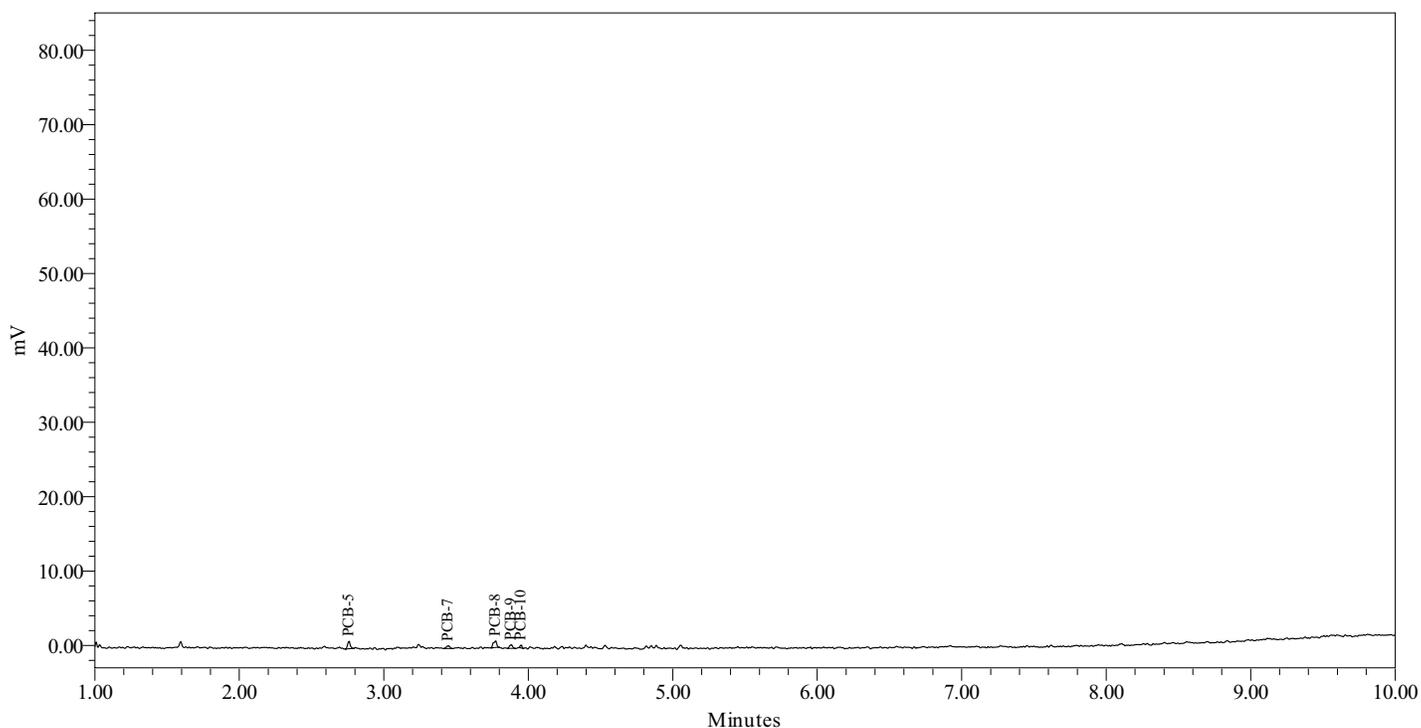
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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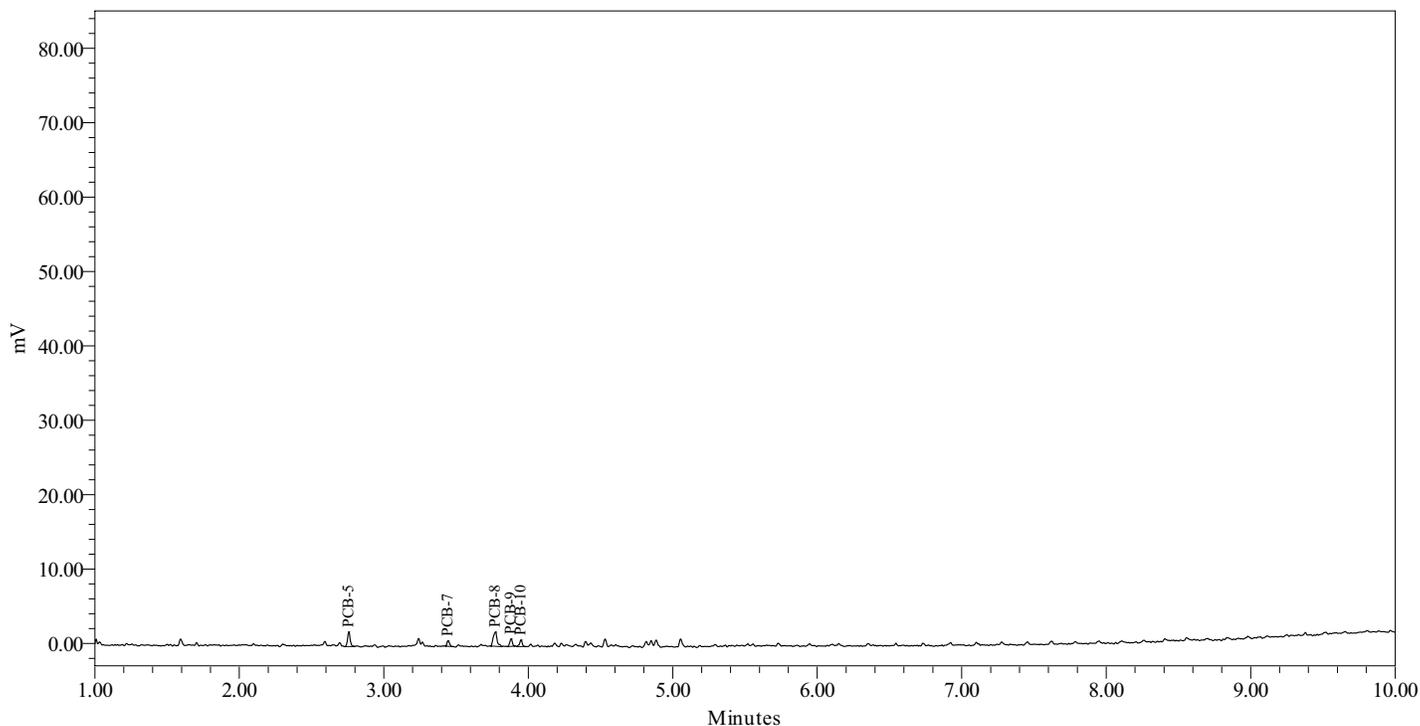
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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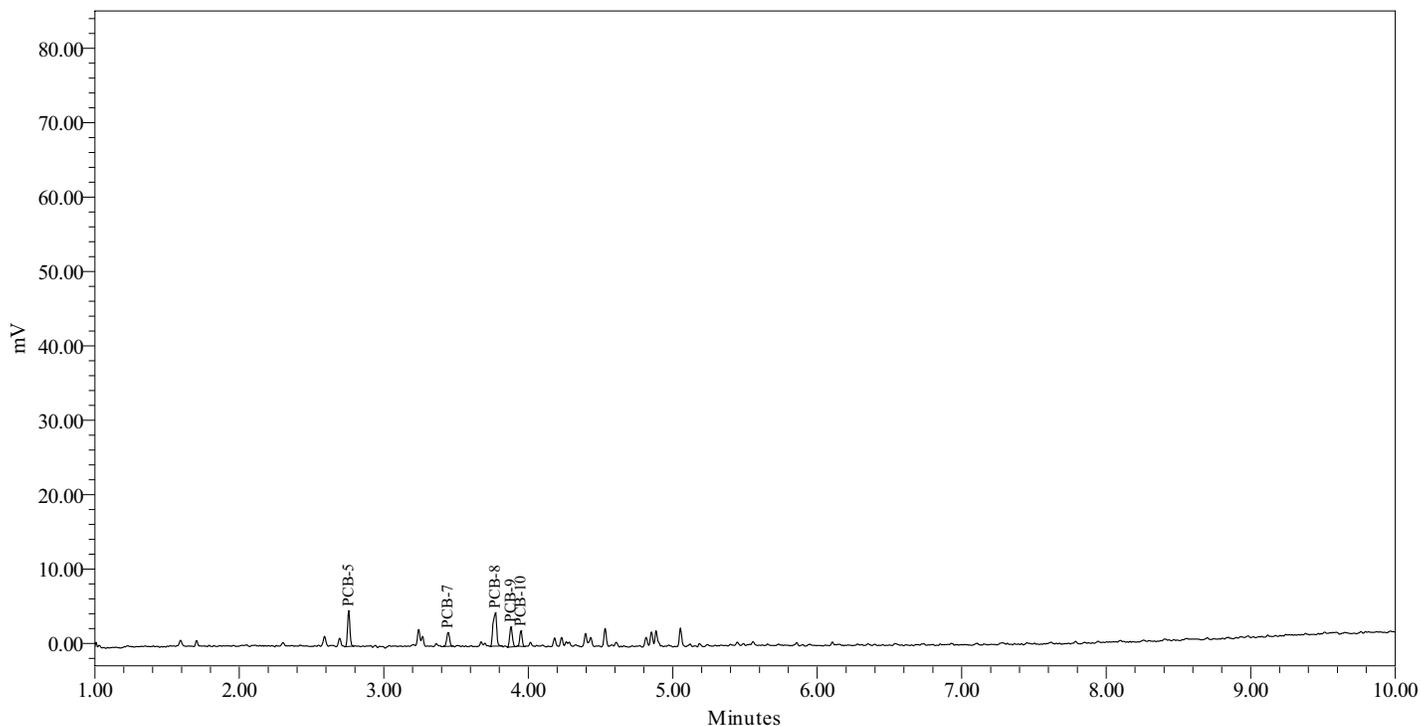
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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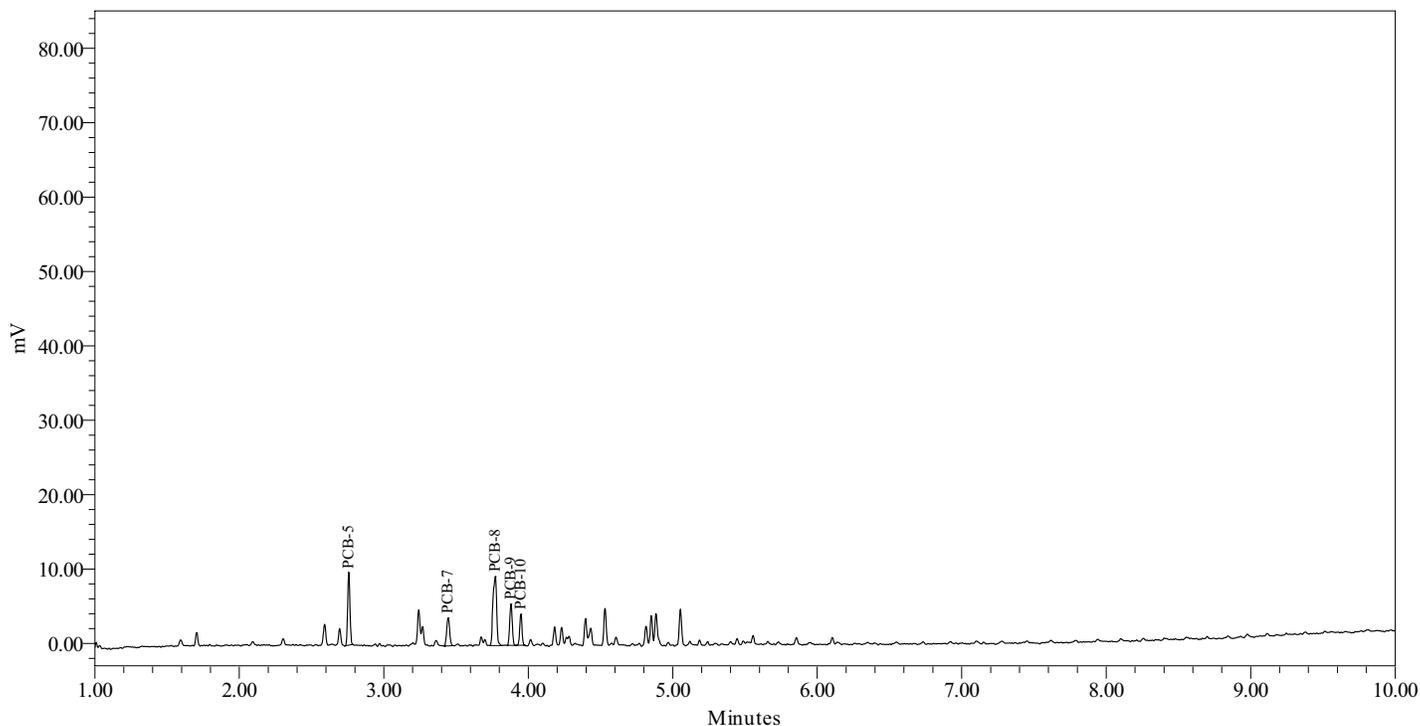
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

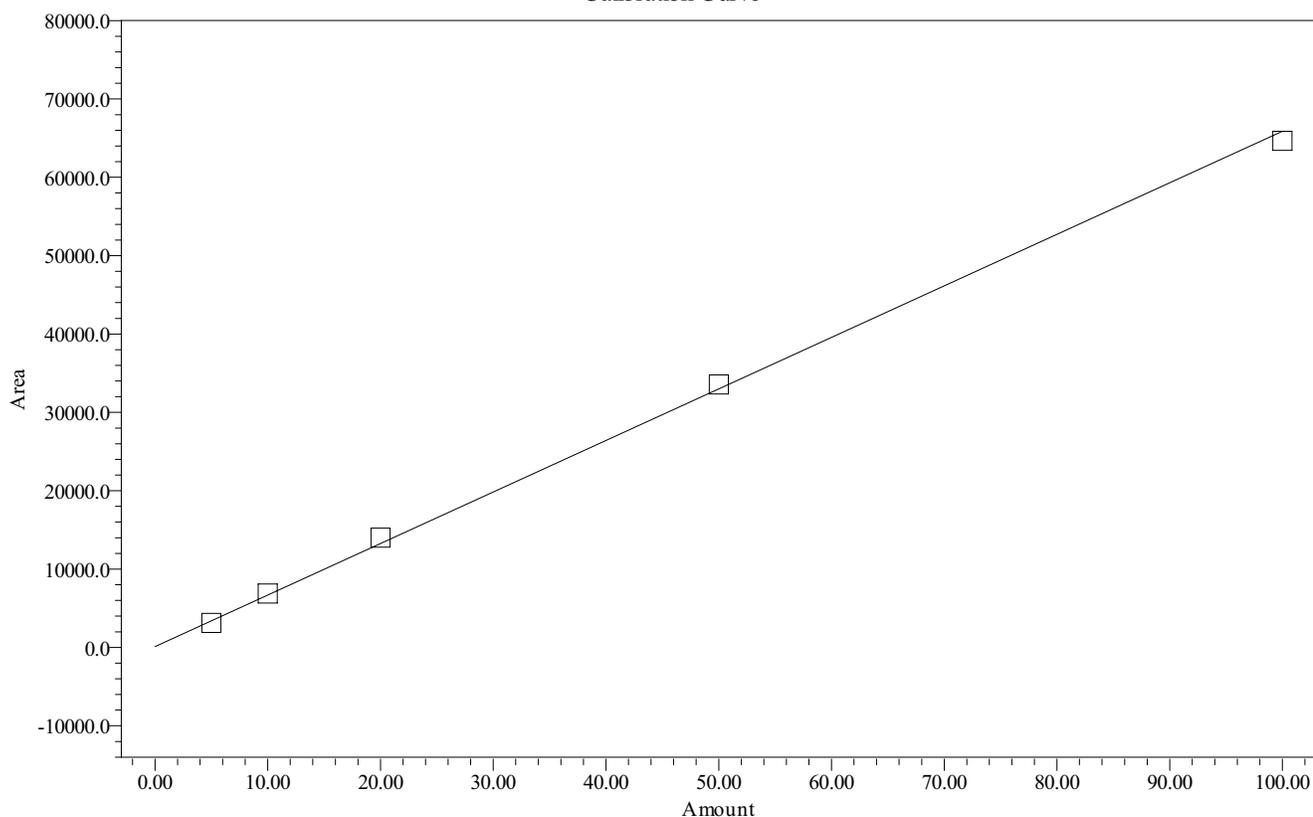
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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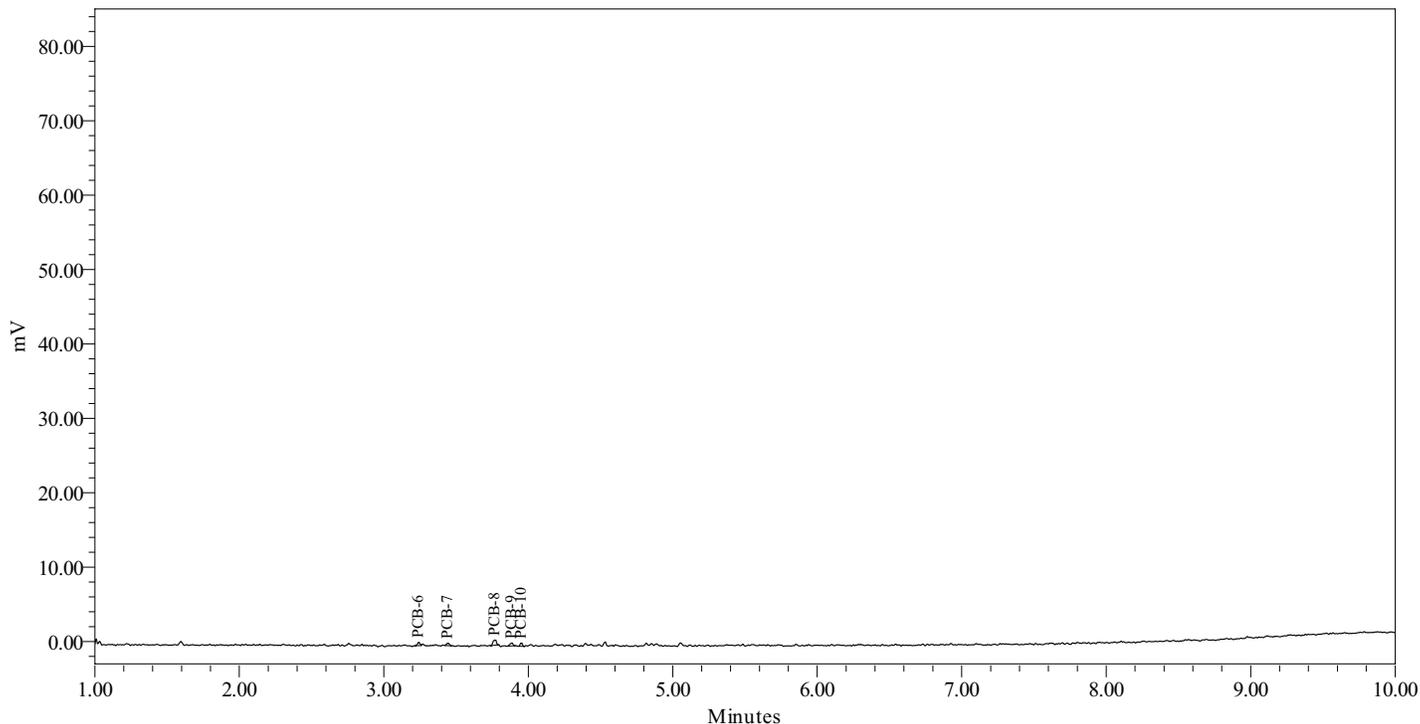
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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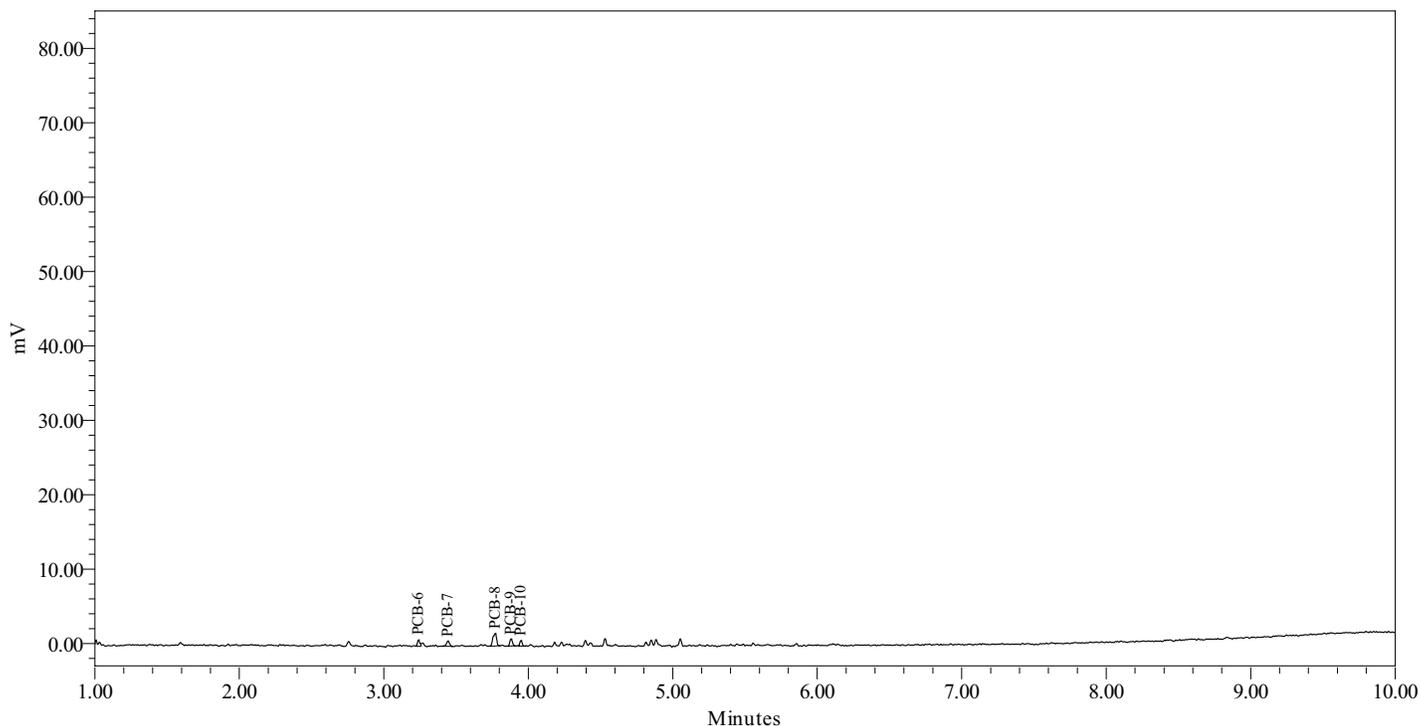
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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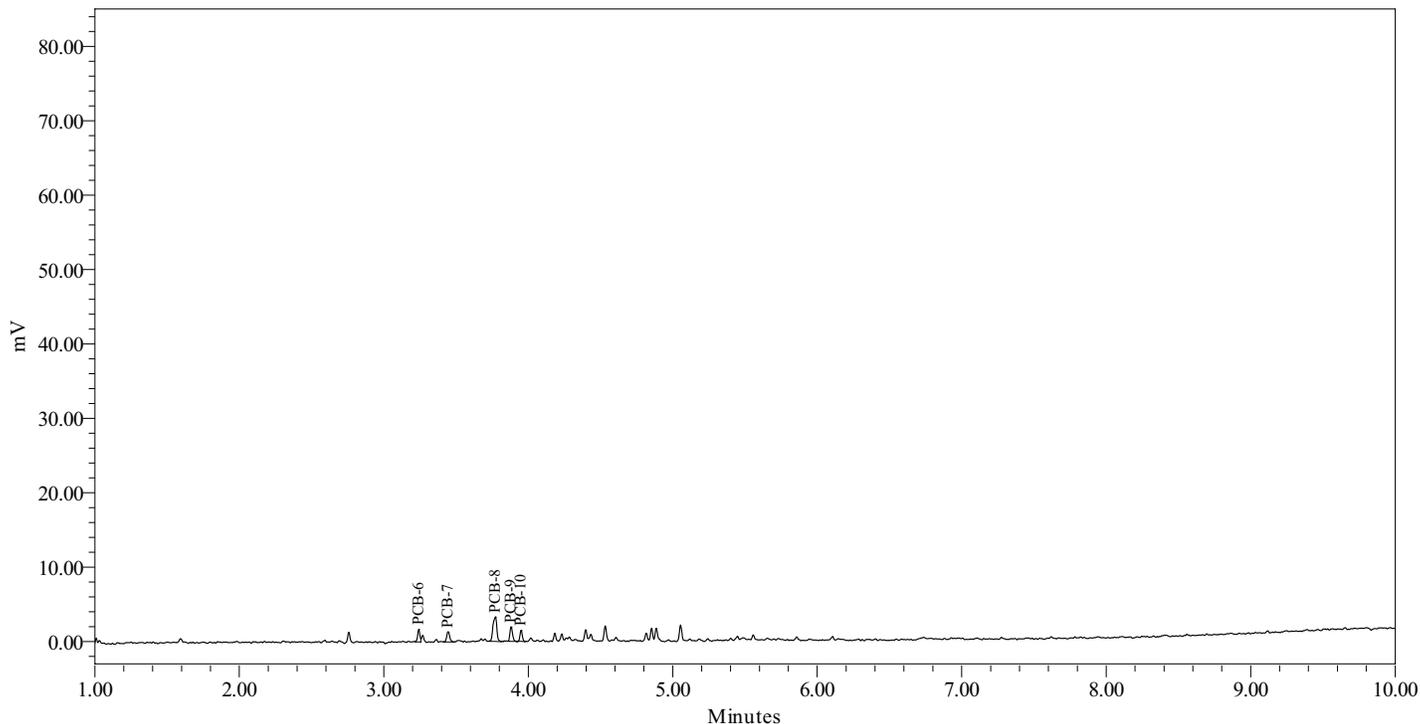
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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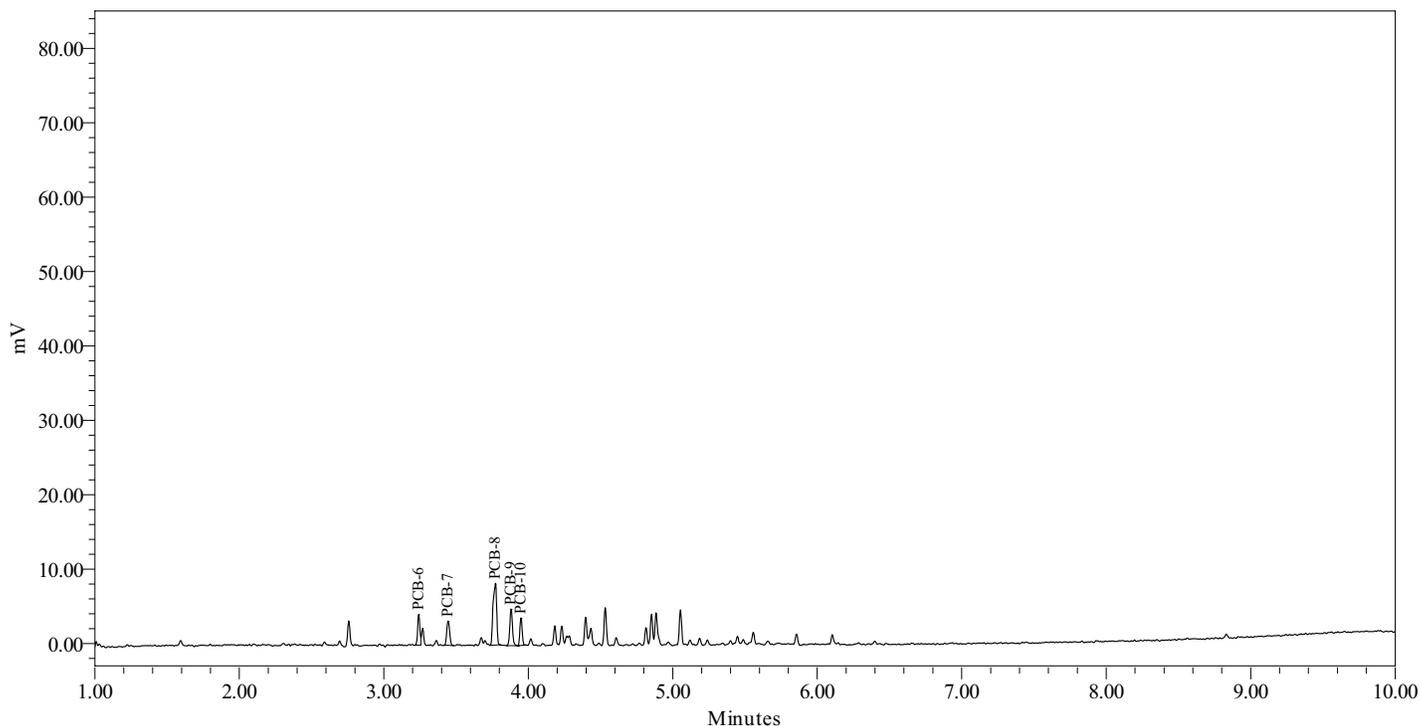
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 4482          |
| 2 PCB-7   | 3.445          | bb               | 4543          |
| 3 PCB-8   | 3.772          | bb               | 14379         |
| 4 PCB-9   | 3.881          | bB               | 6189          |
| 5 PCB-10  | 3.950          | Bb               | 3965          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 33559               |                      |
| 2 A1232     | 29076               |                      |
| 3 A1232-8/9 | 8508                |                      |
| 4 A1242     | 33559               | 50.000               |



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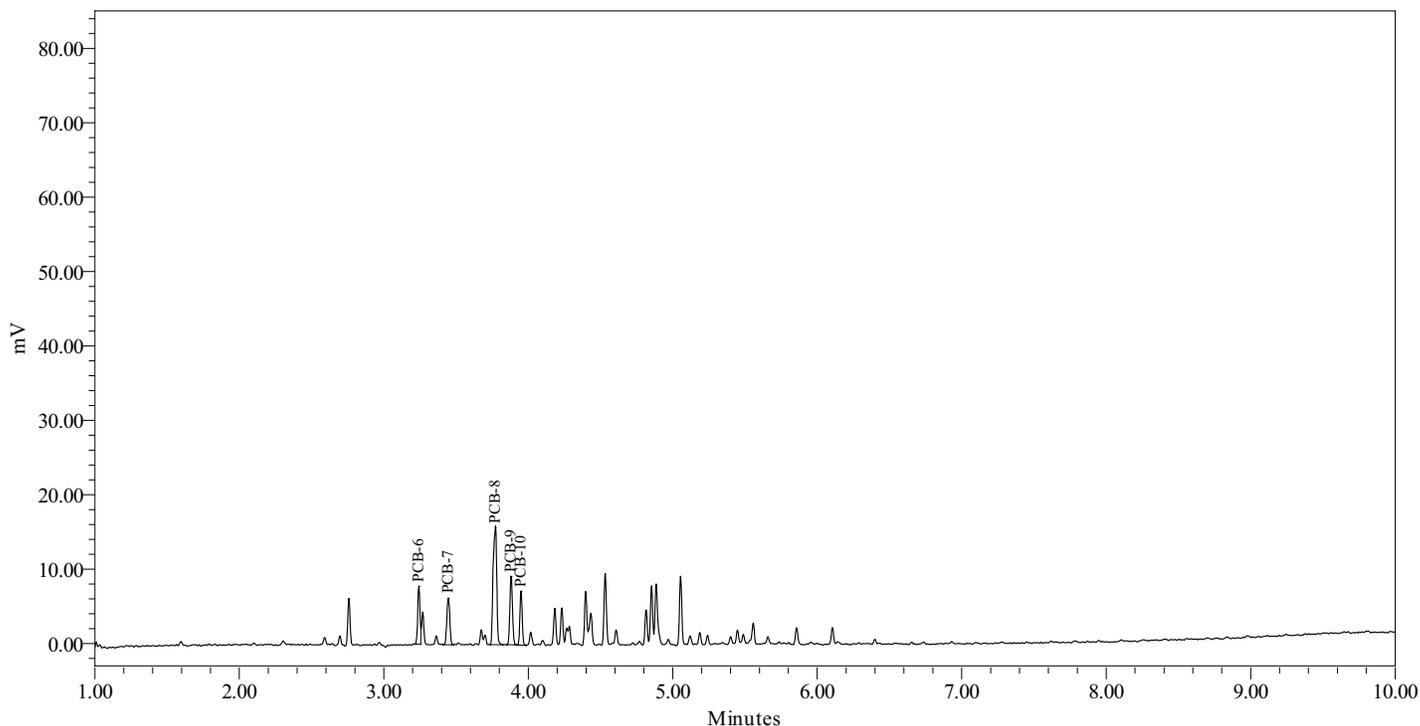
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

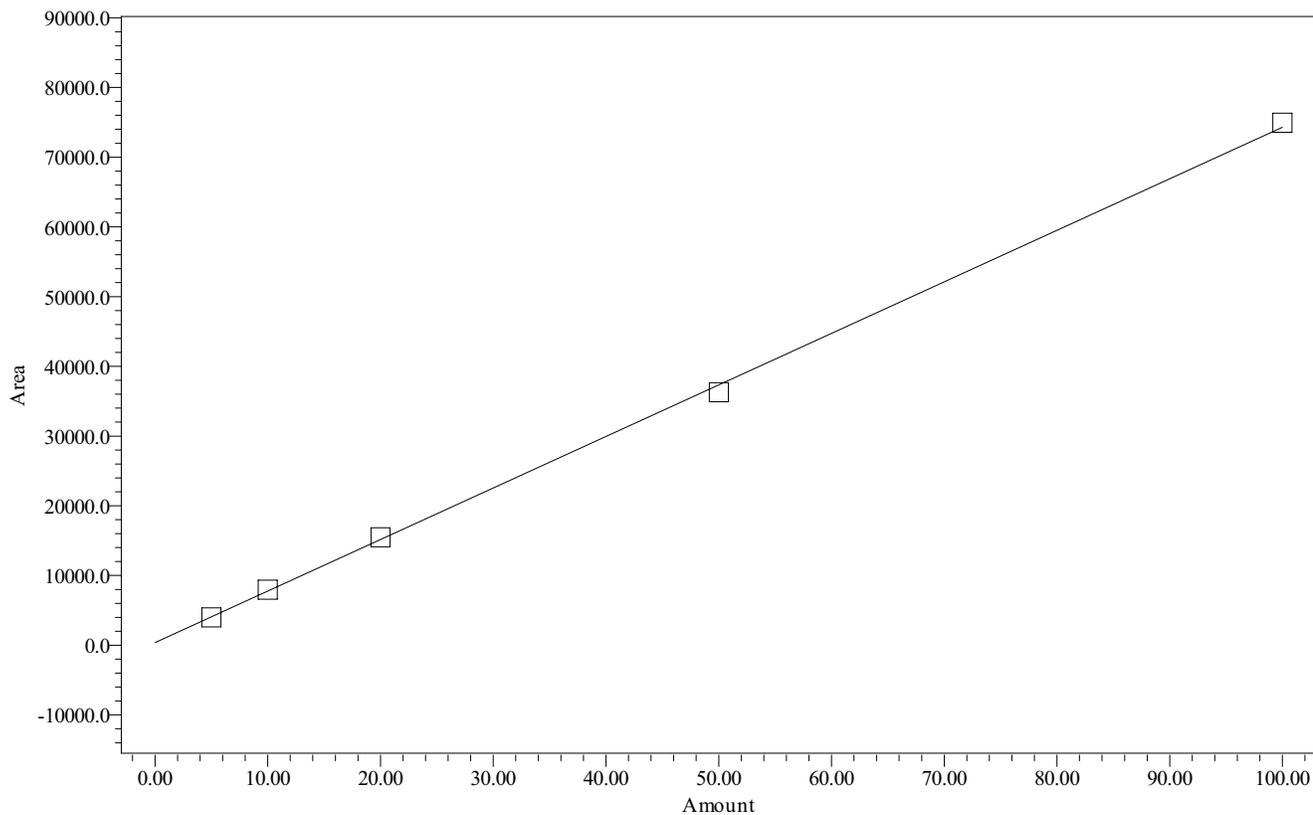
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

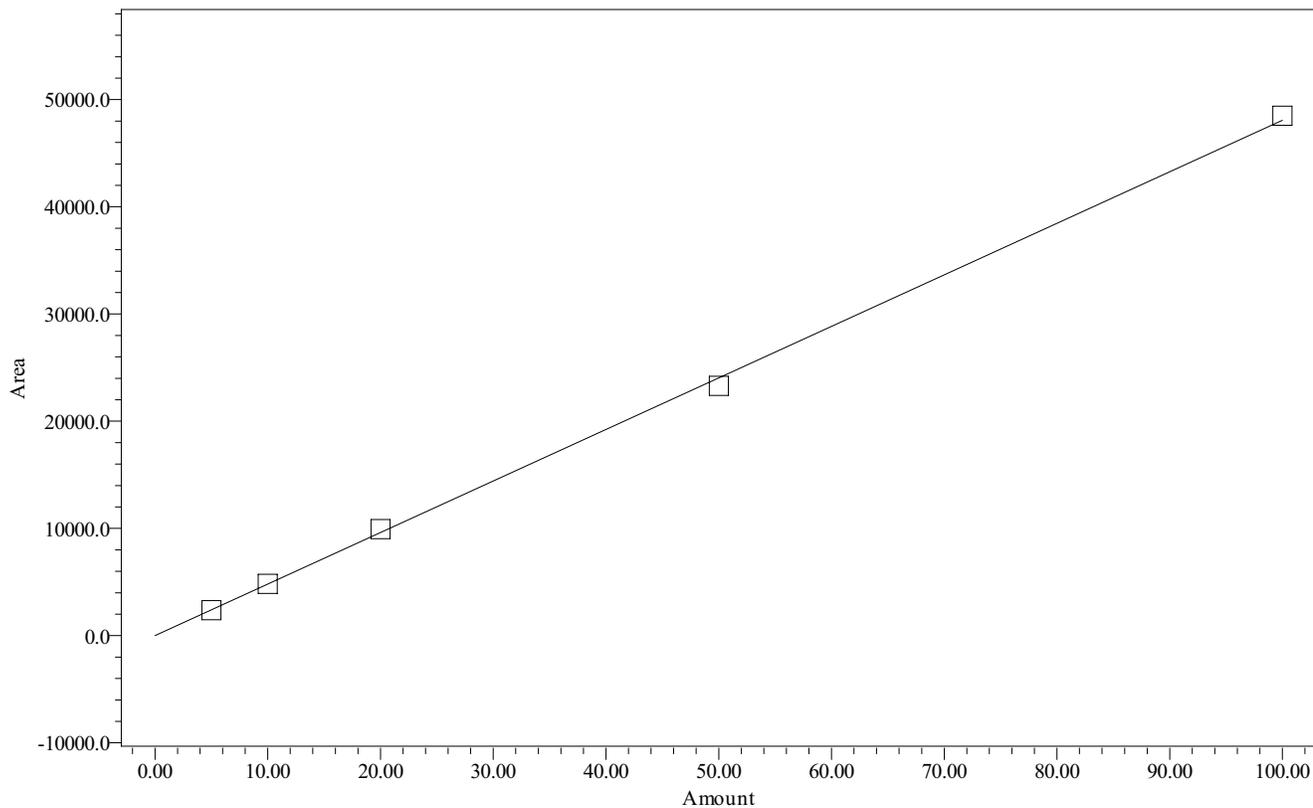
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



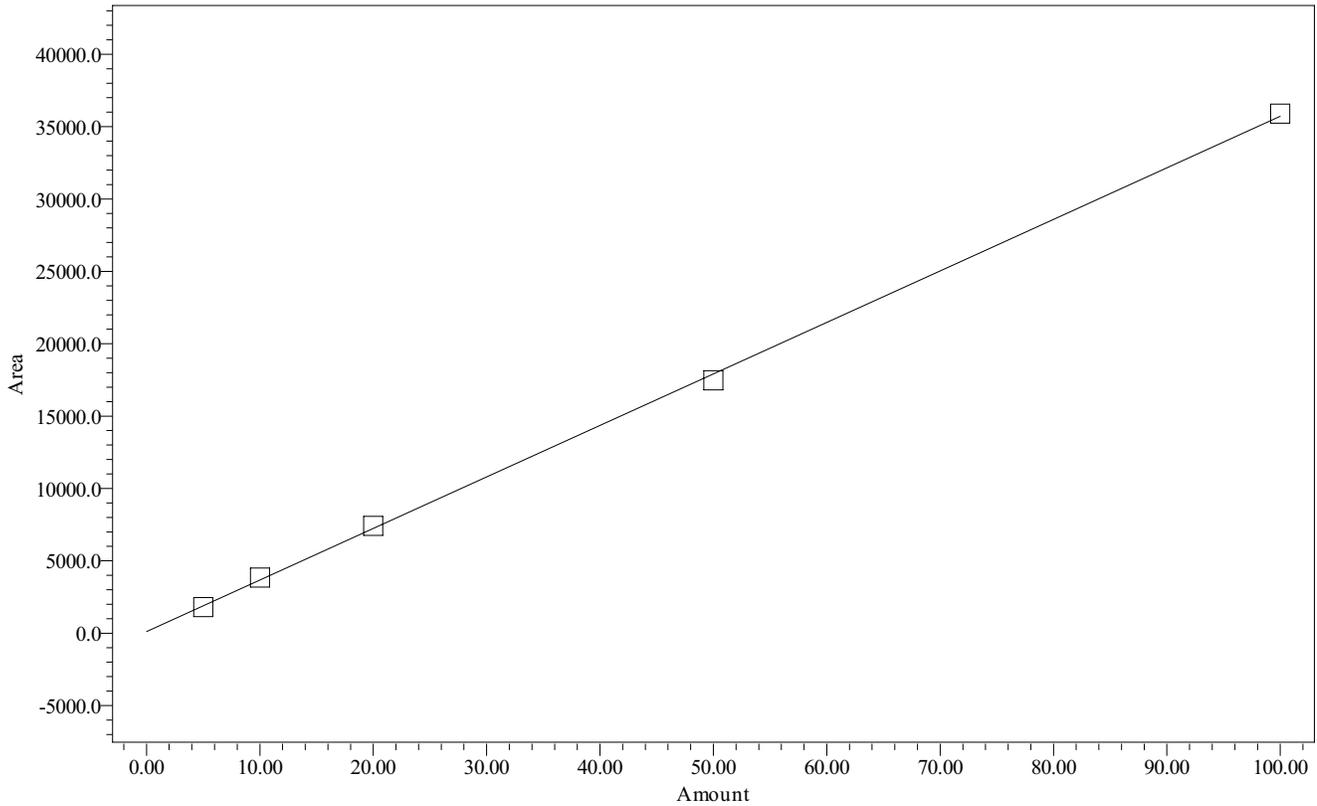
Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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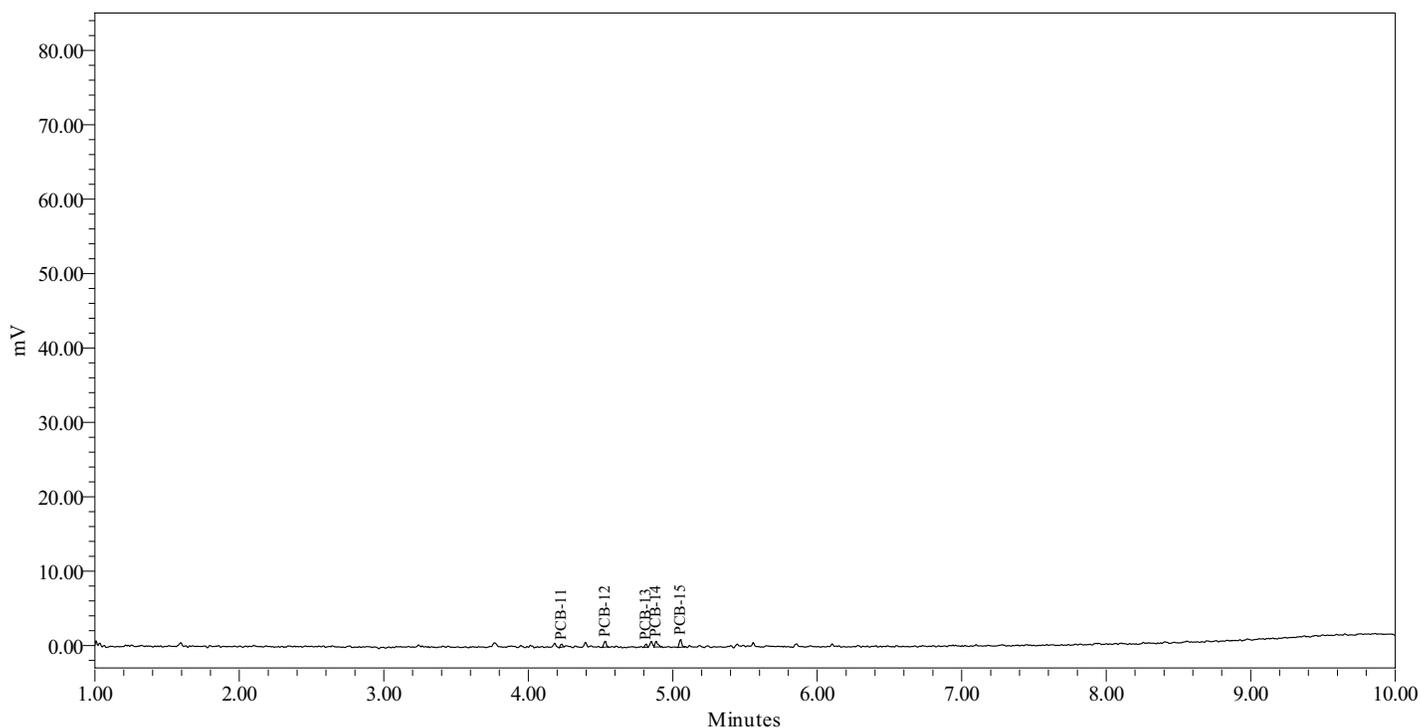
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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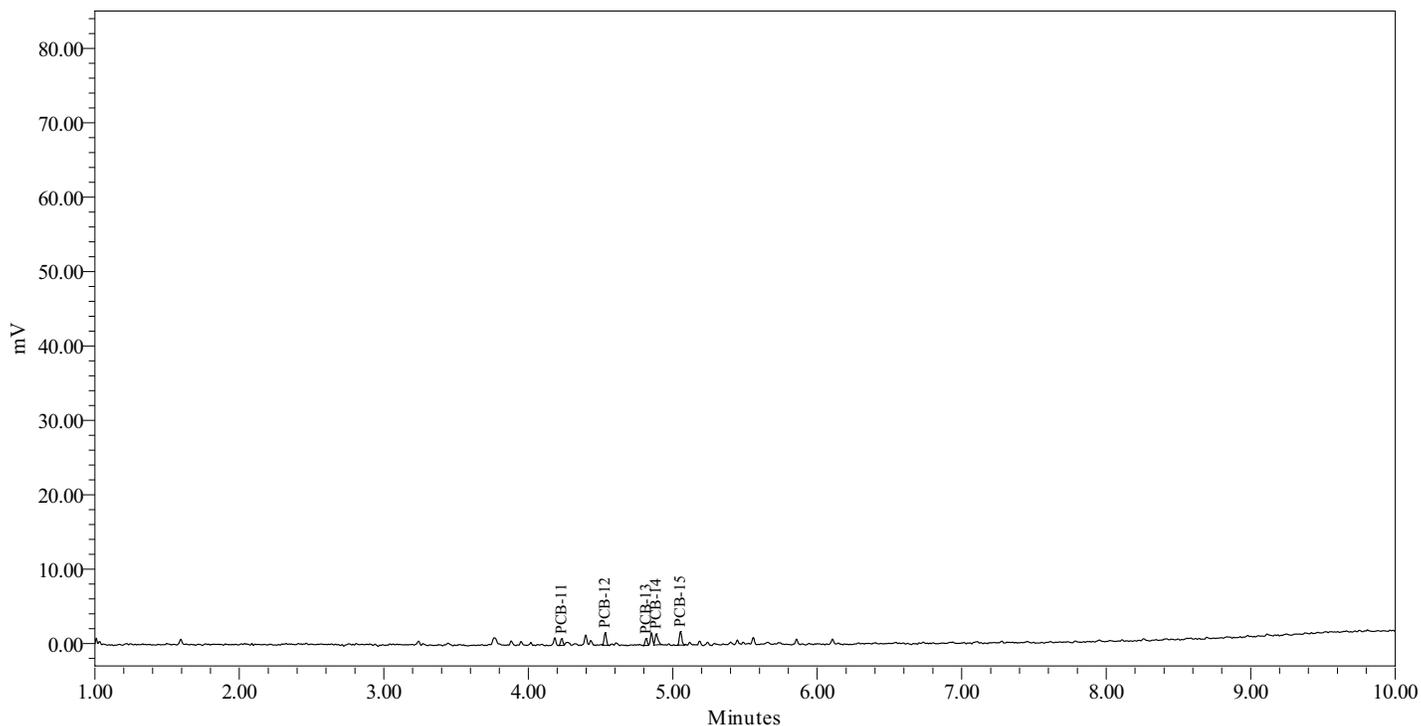
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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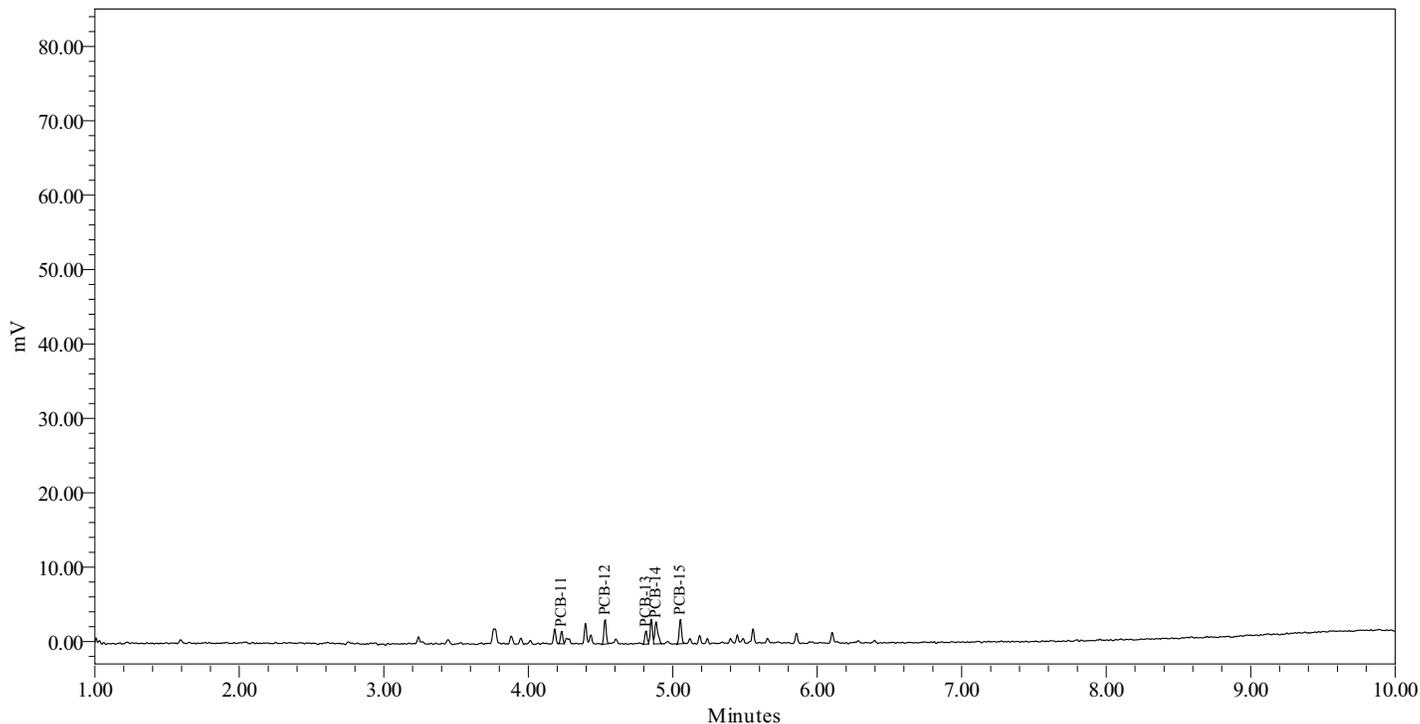
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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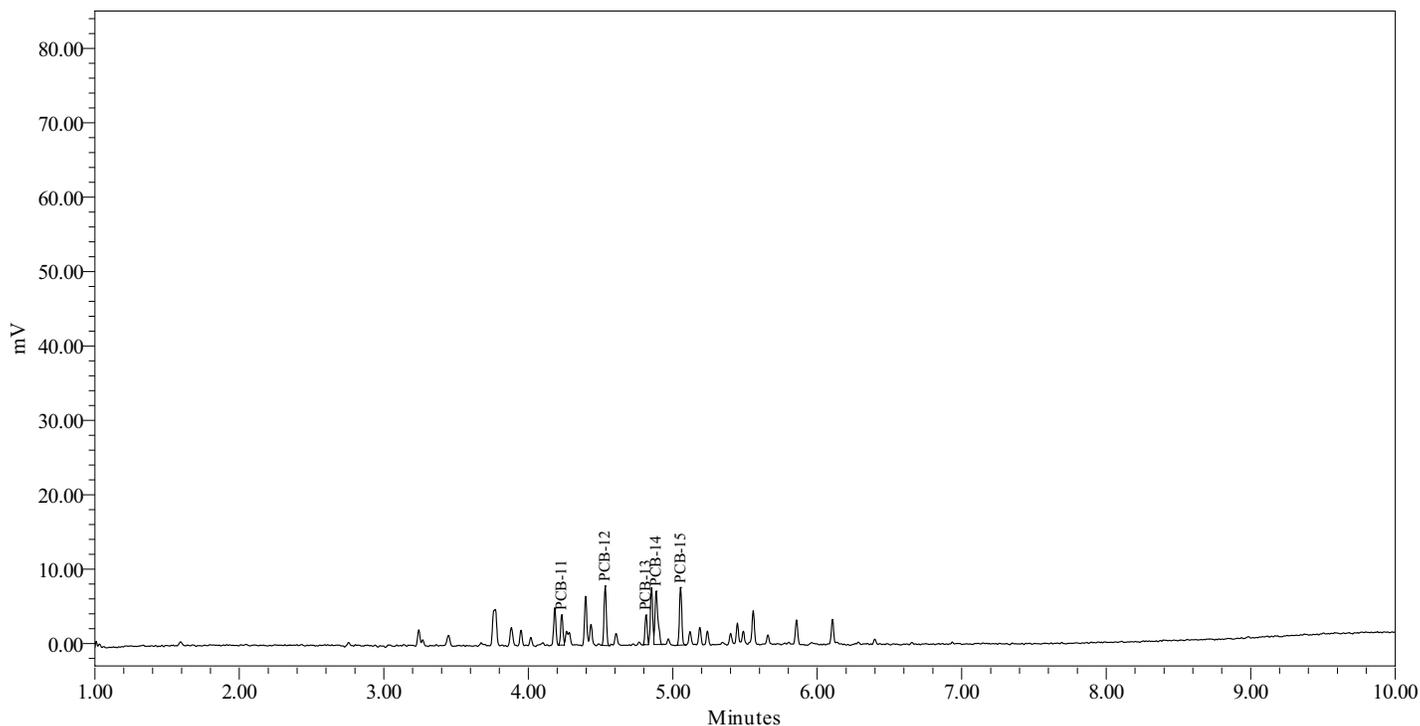
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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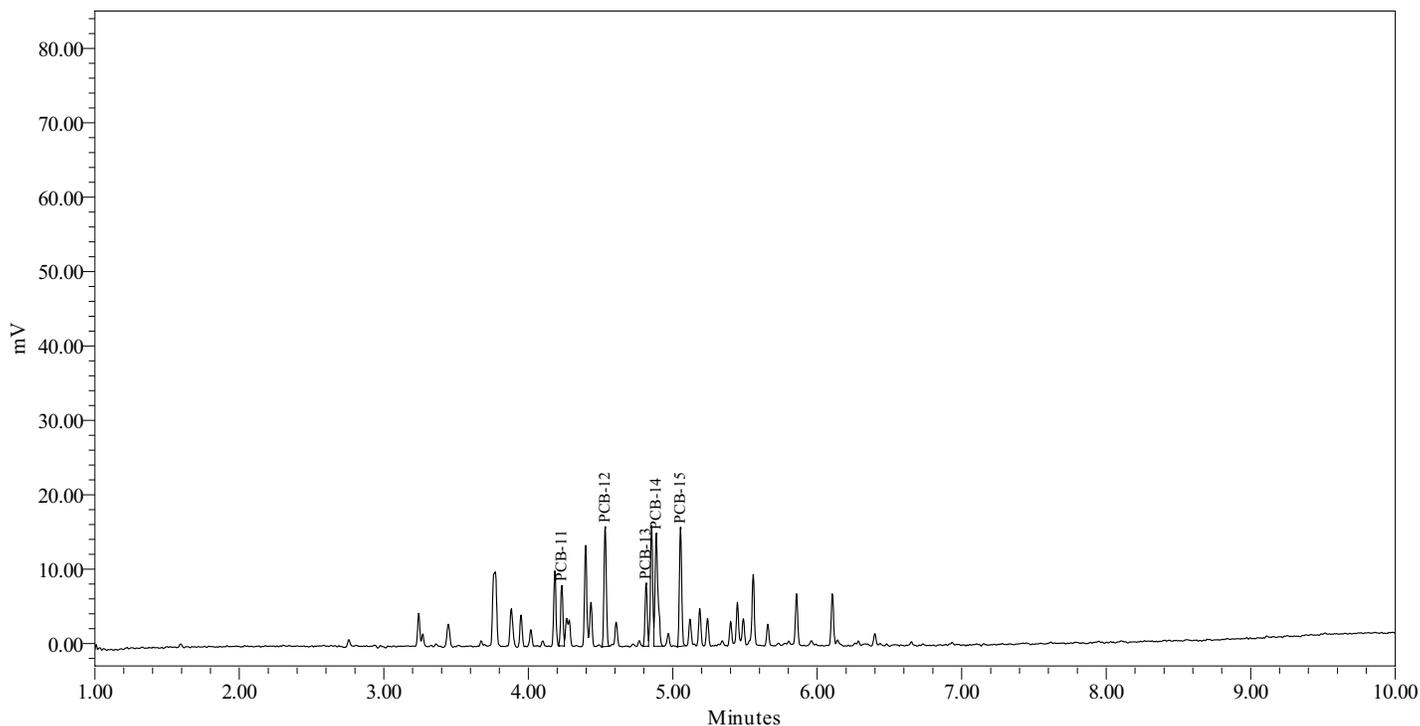
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

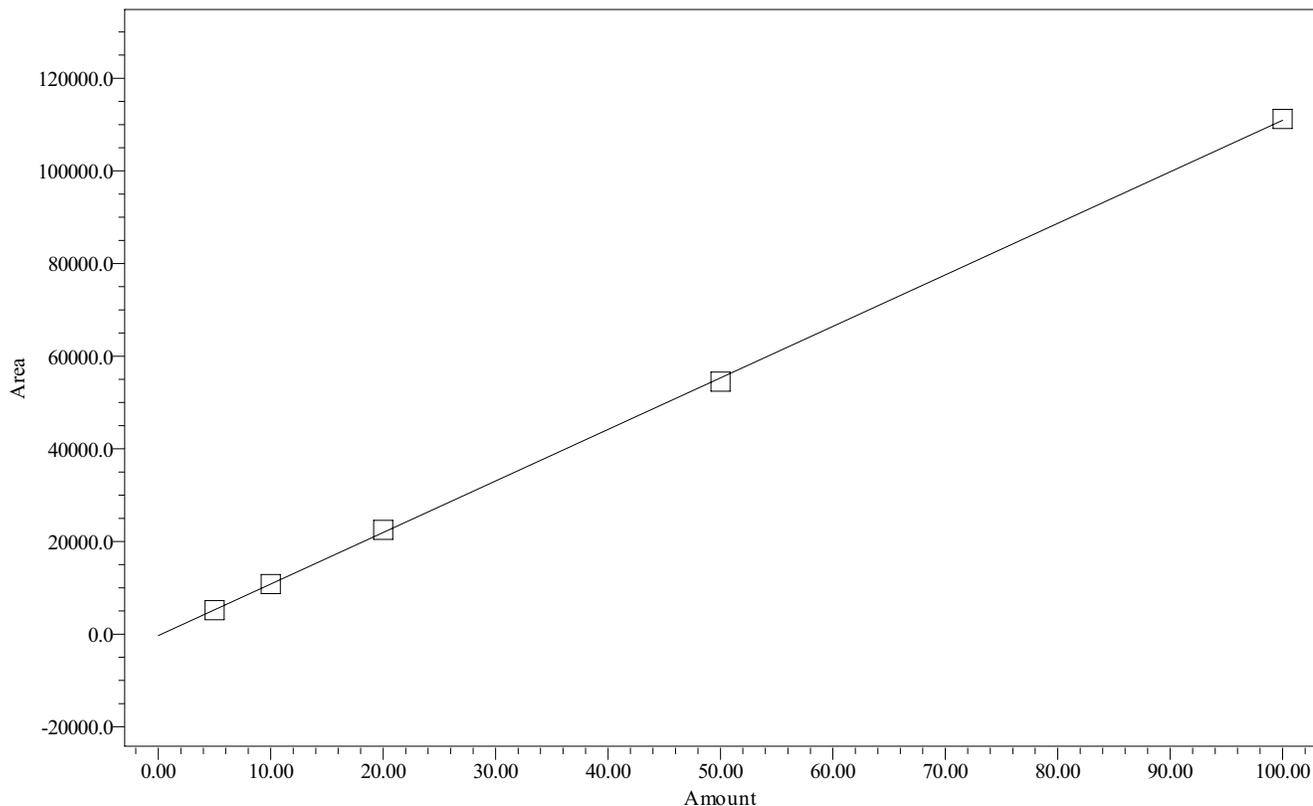
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

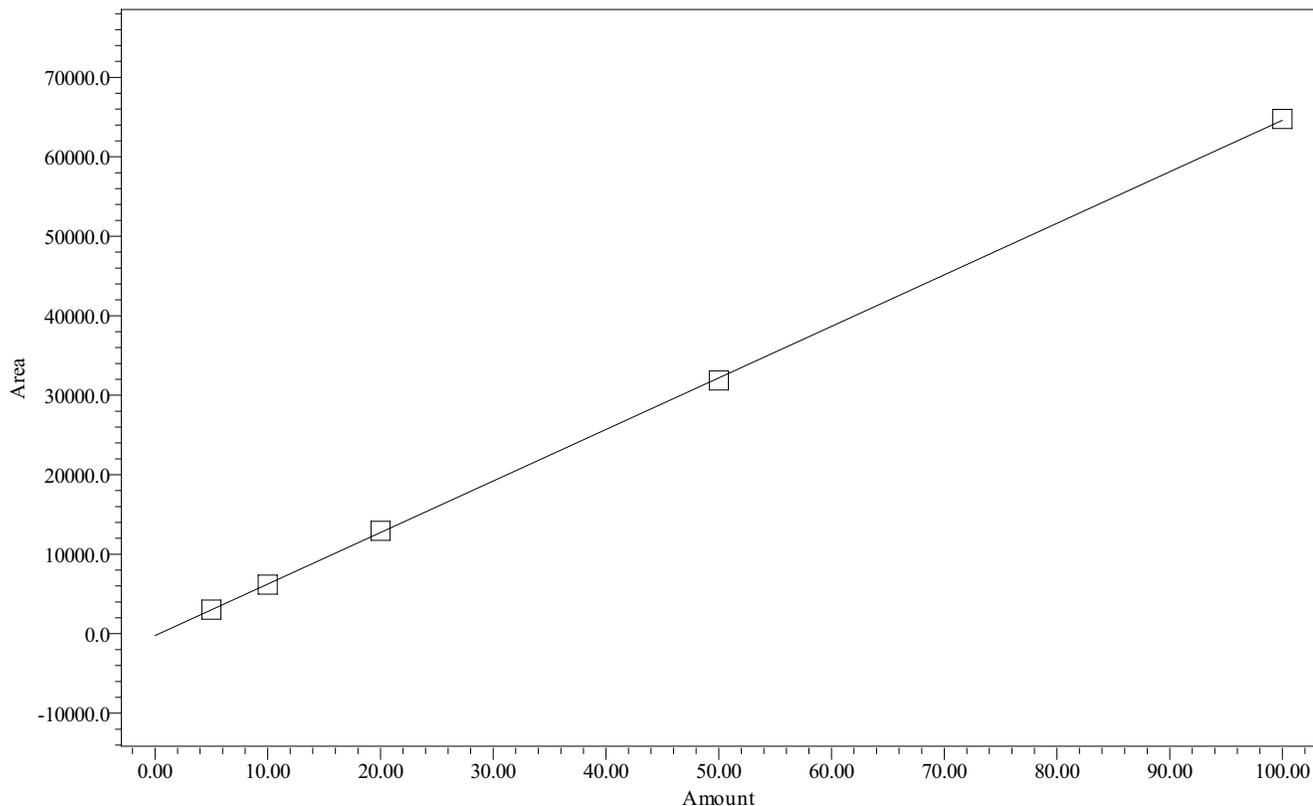
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

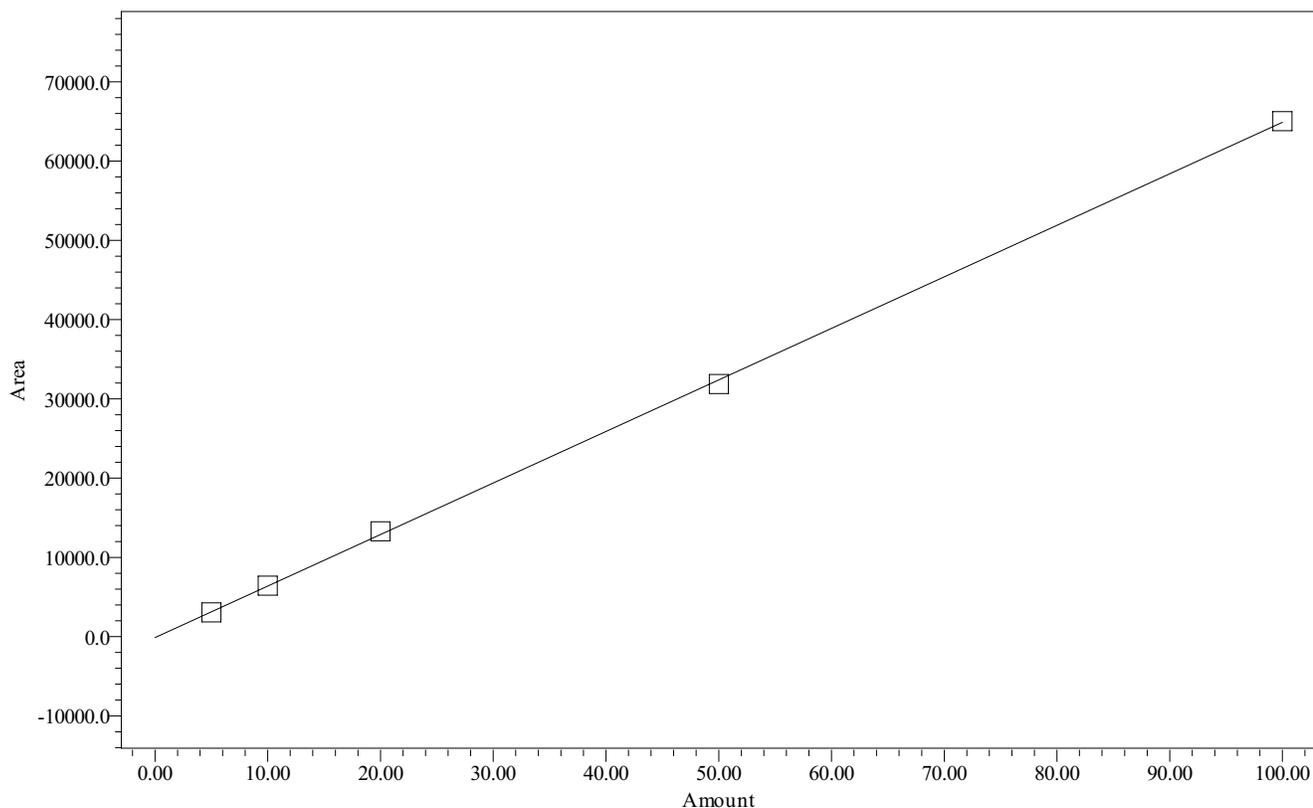
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00          | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00         | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00         | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00         | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00        | 65042    | 100.2       | 0.231       | No     | No     |

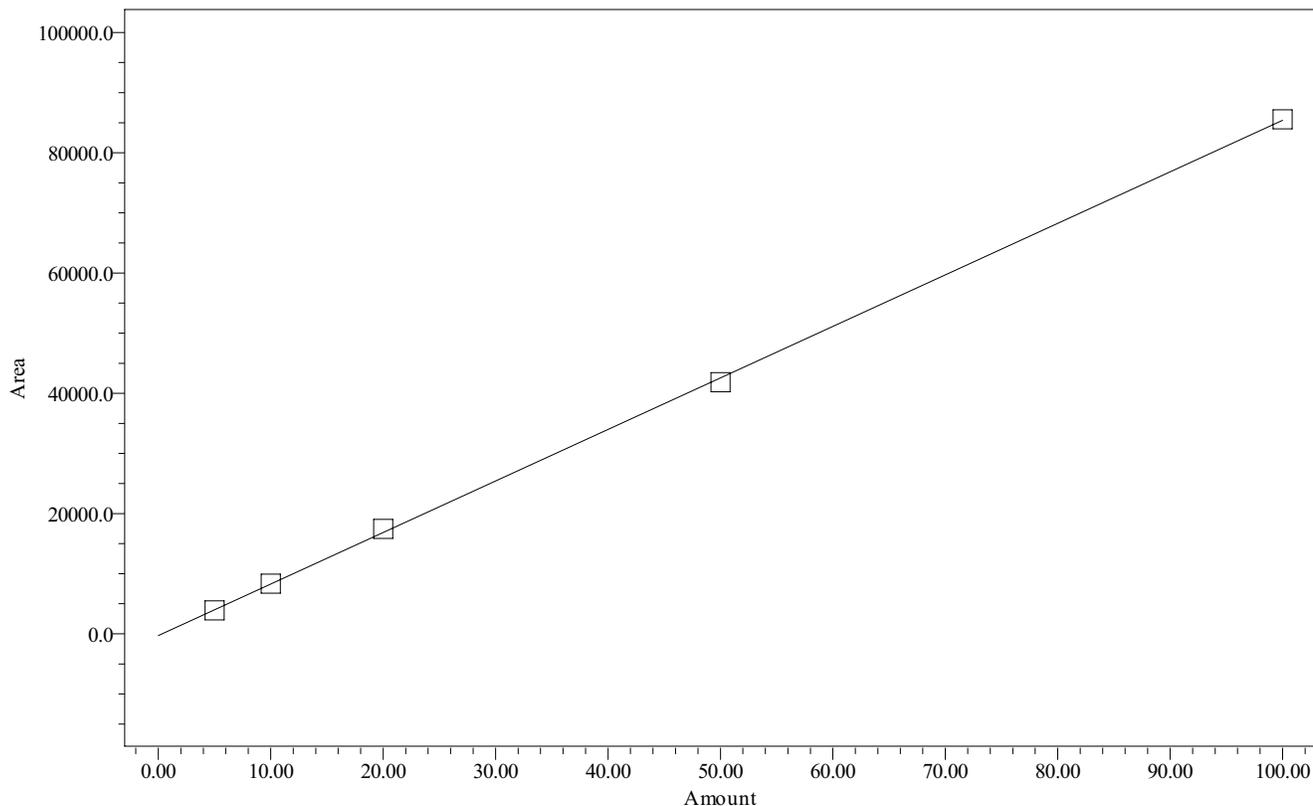
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

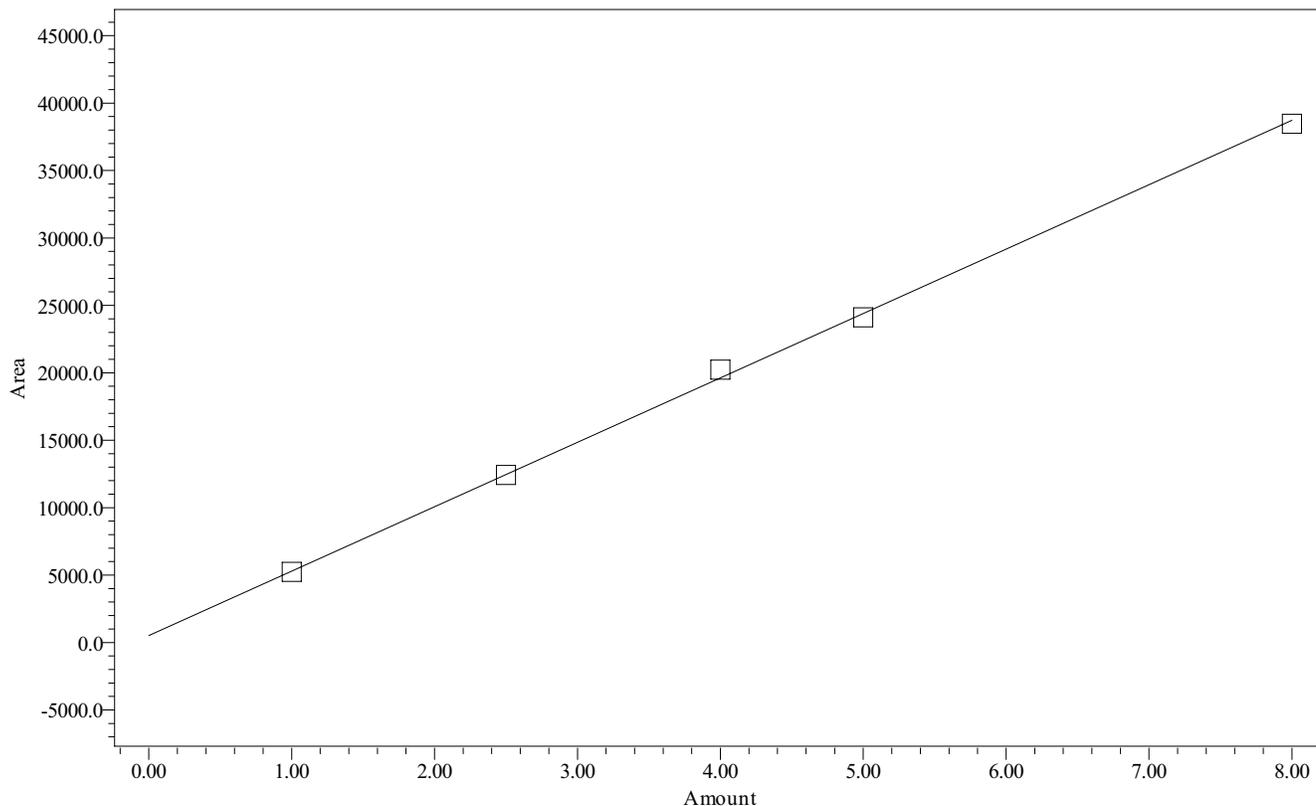
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

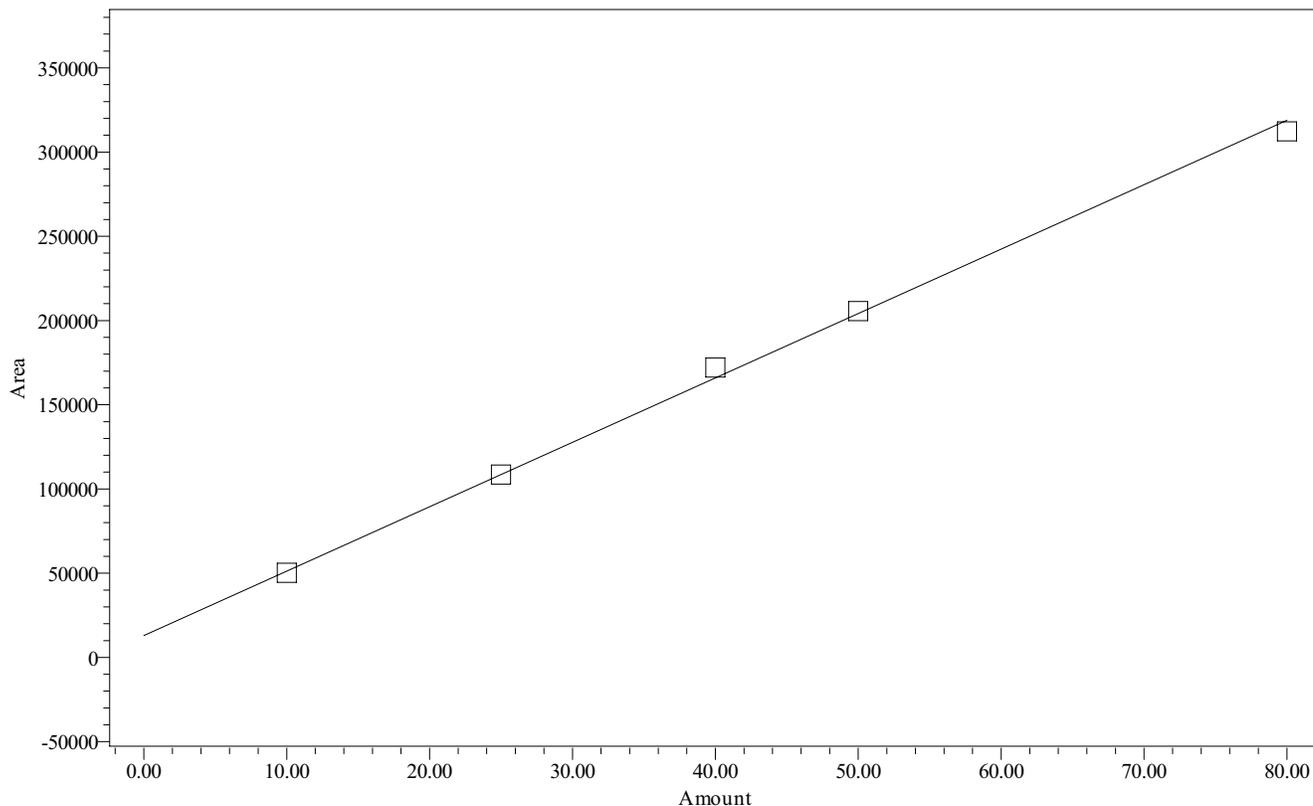
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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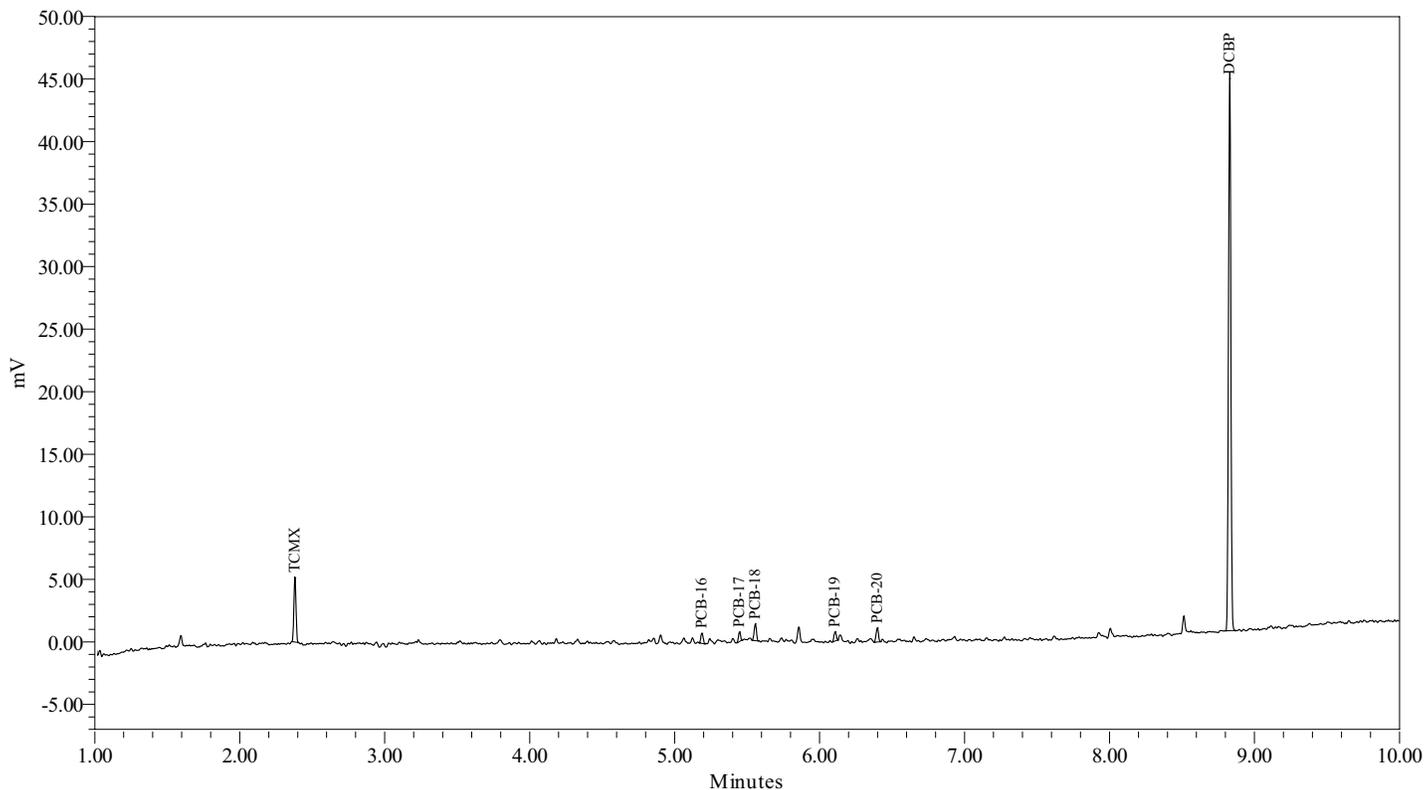
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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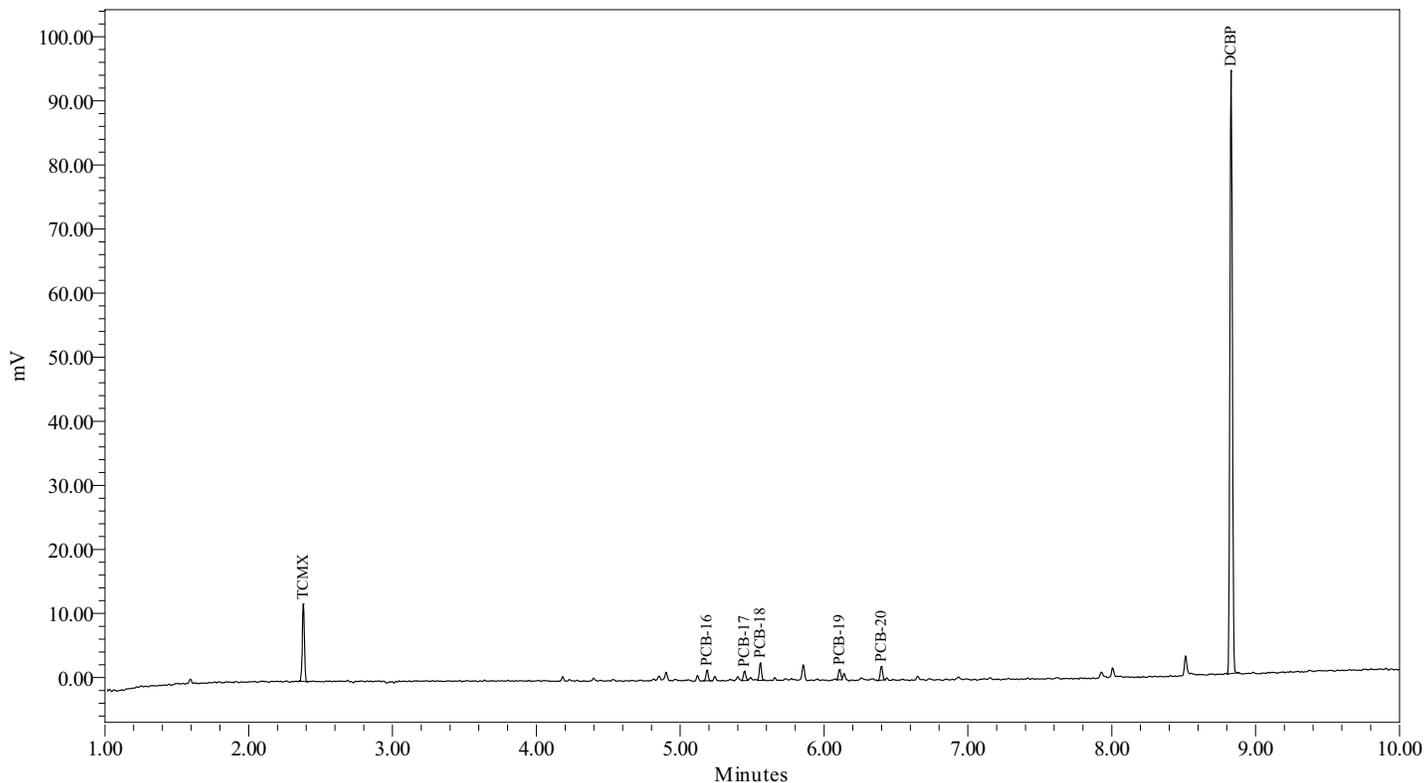
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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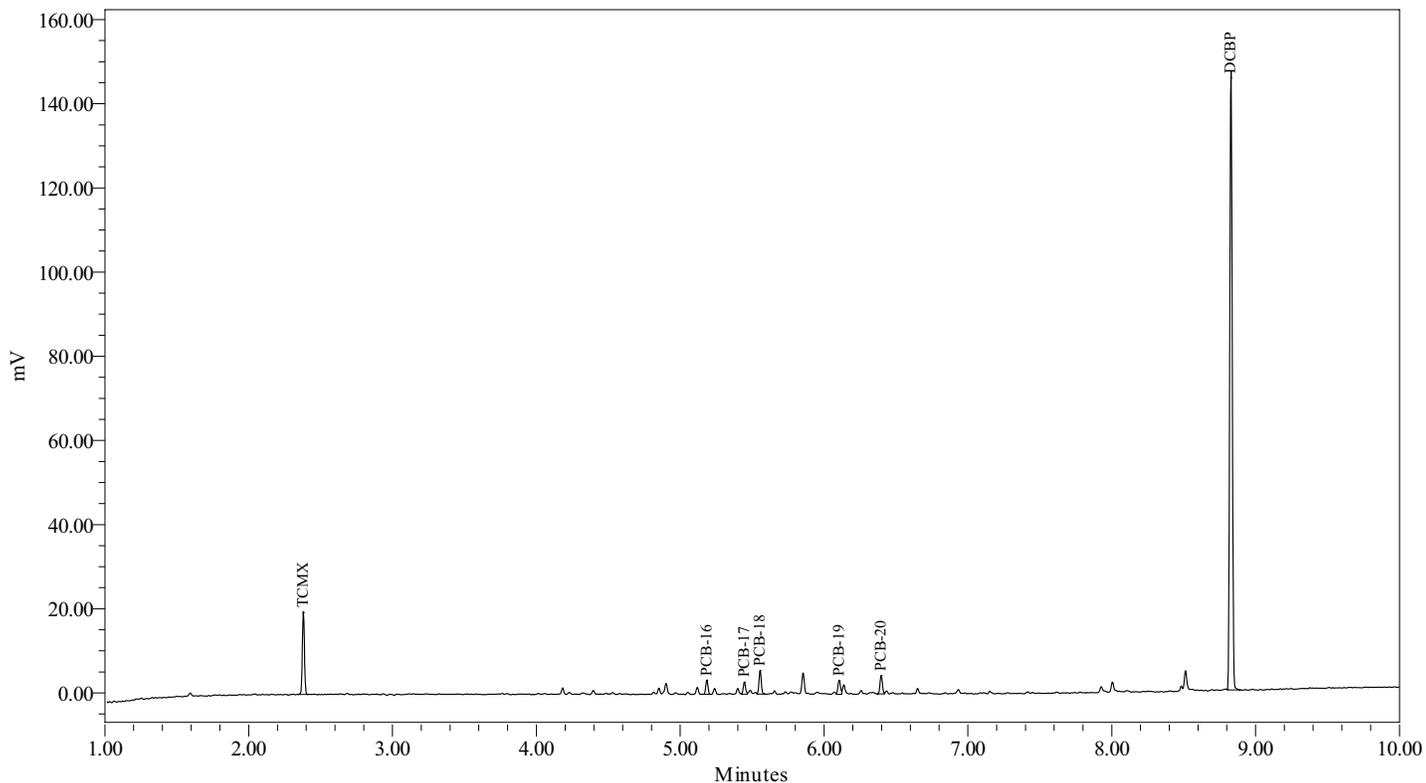
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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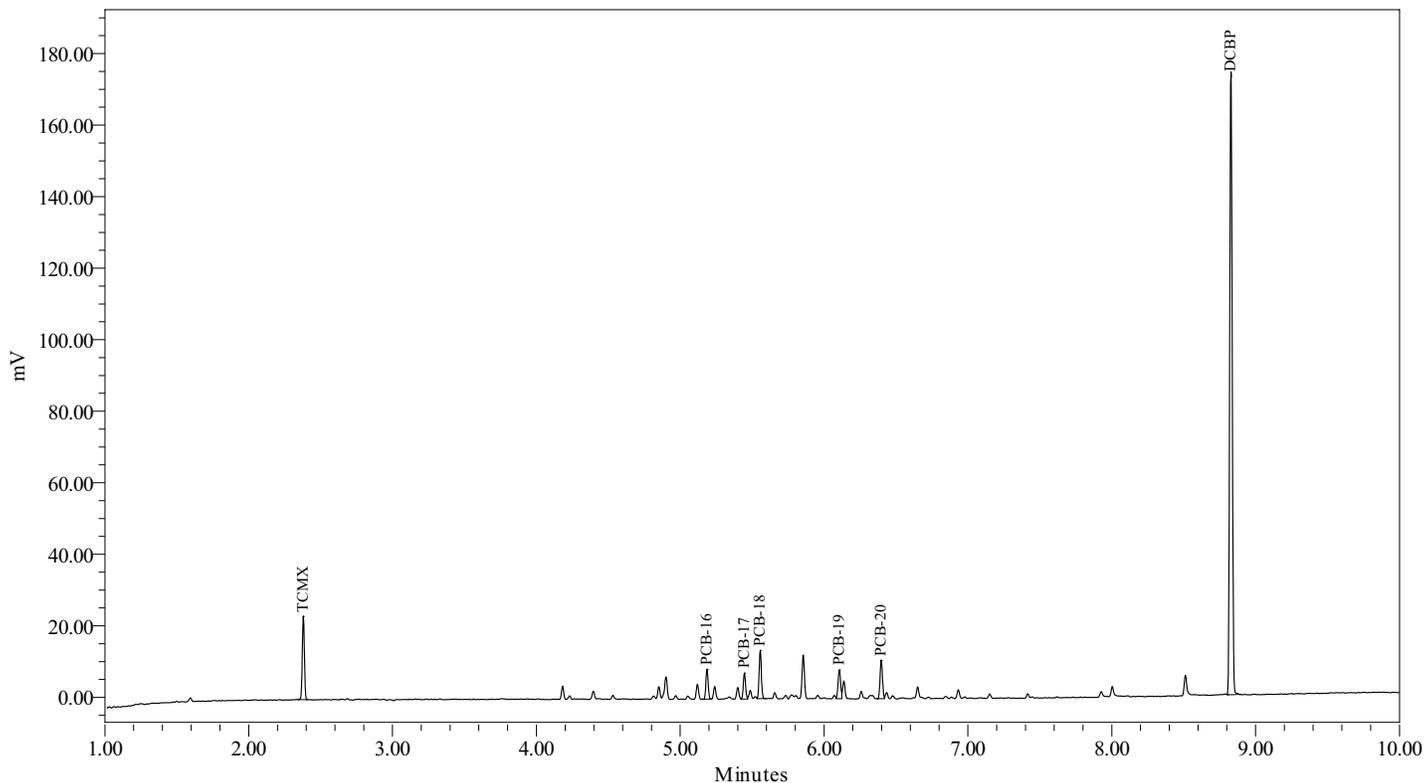
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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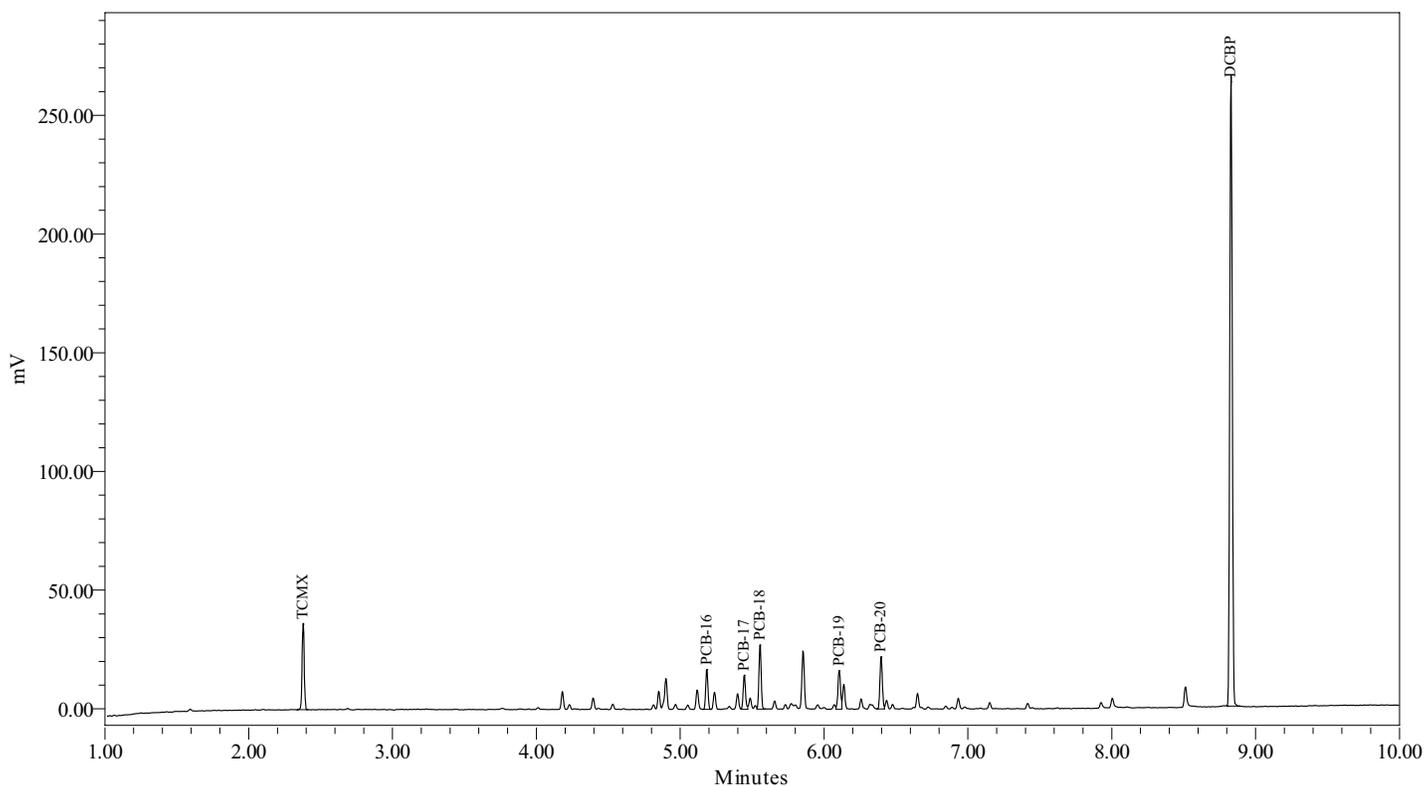
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

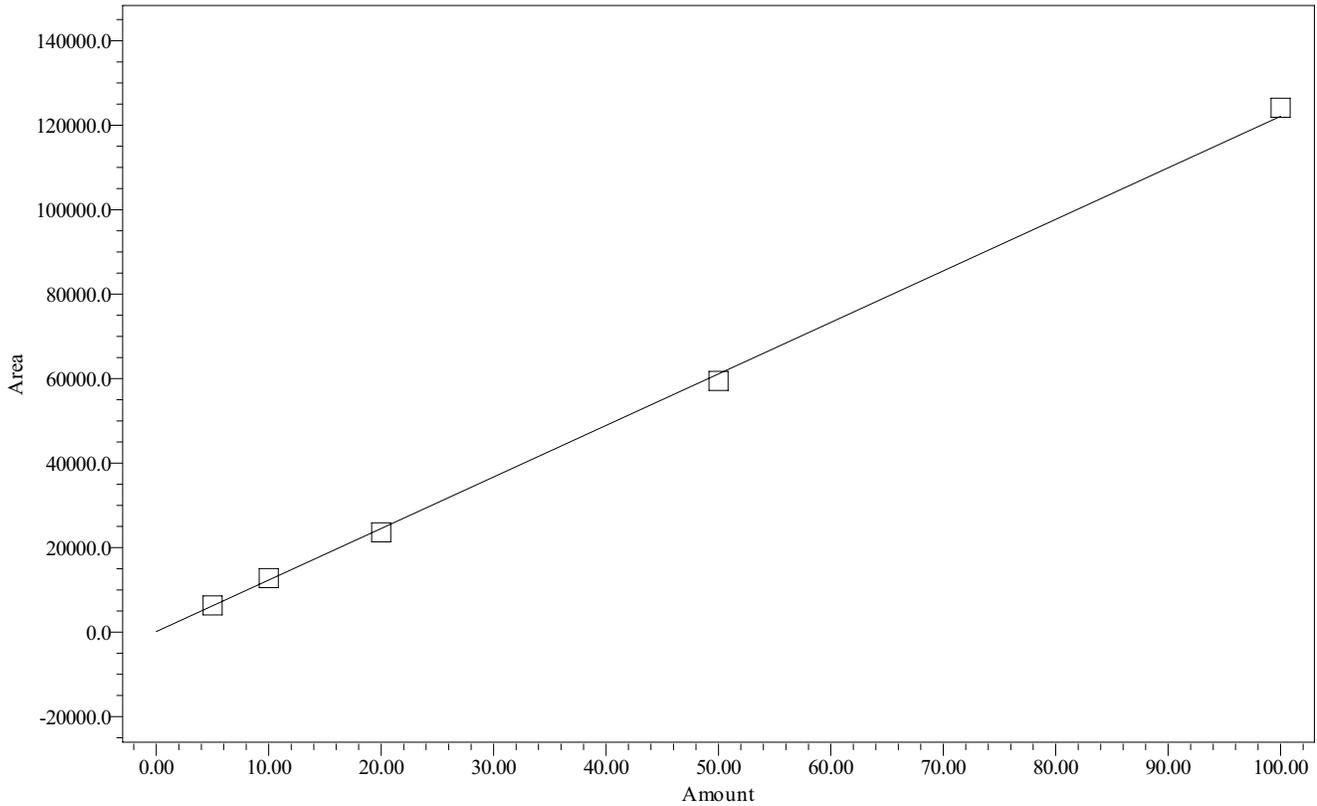
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

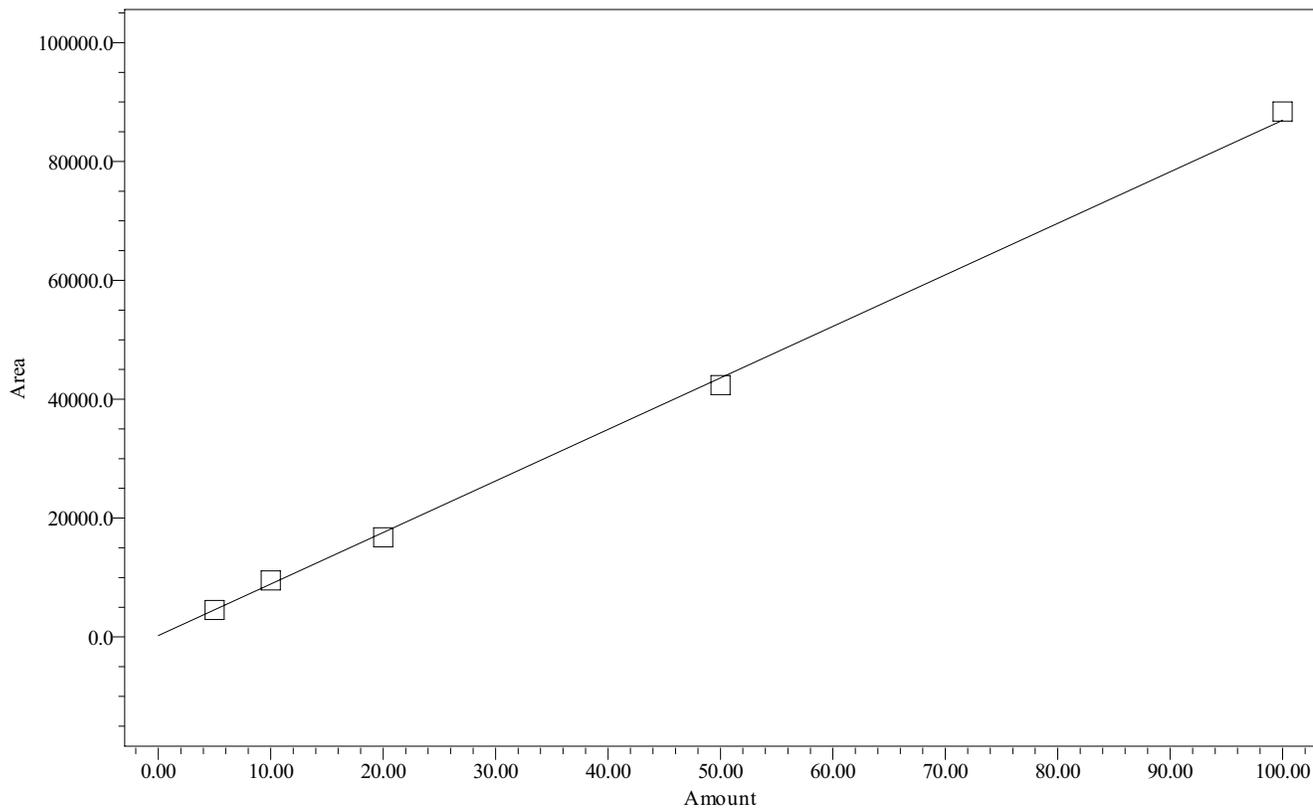
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

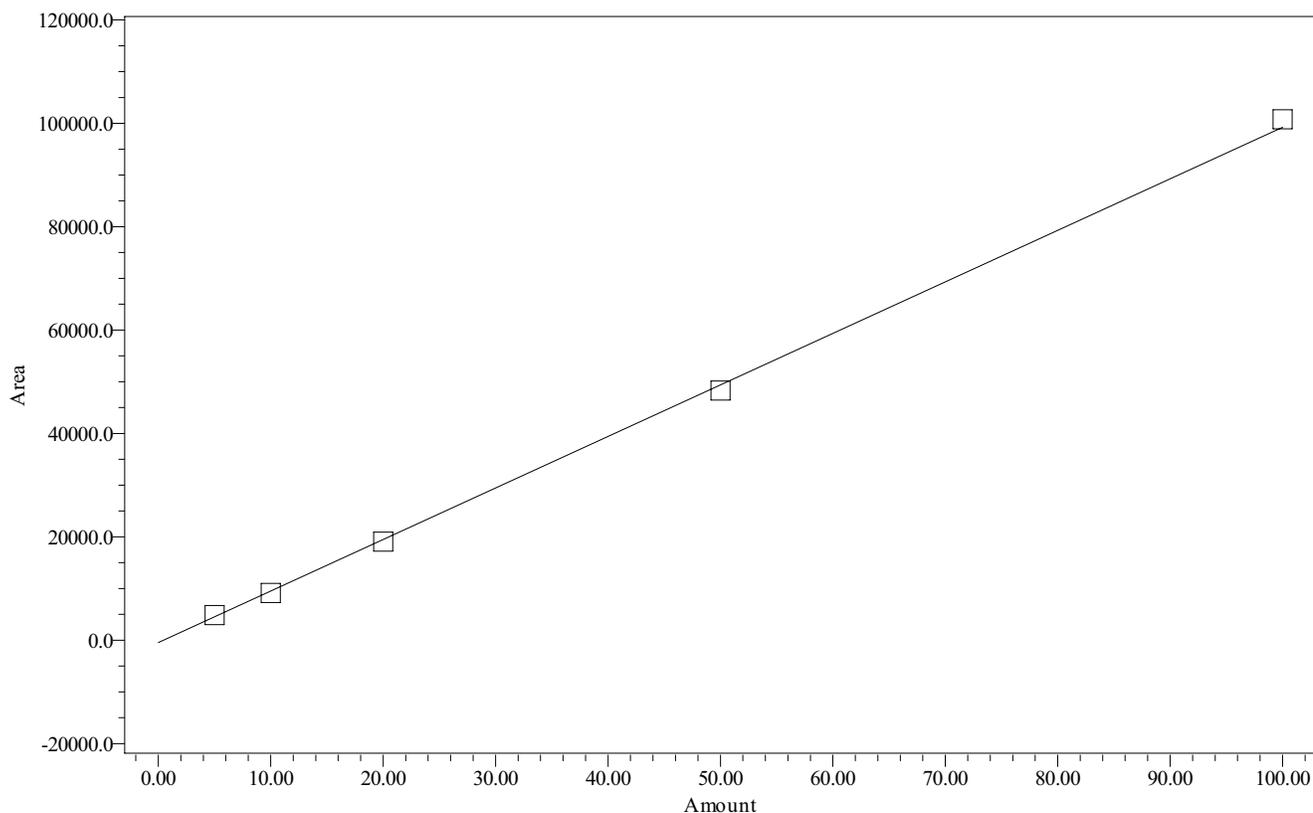
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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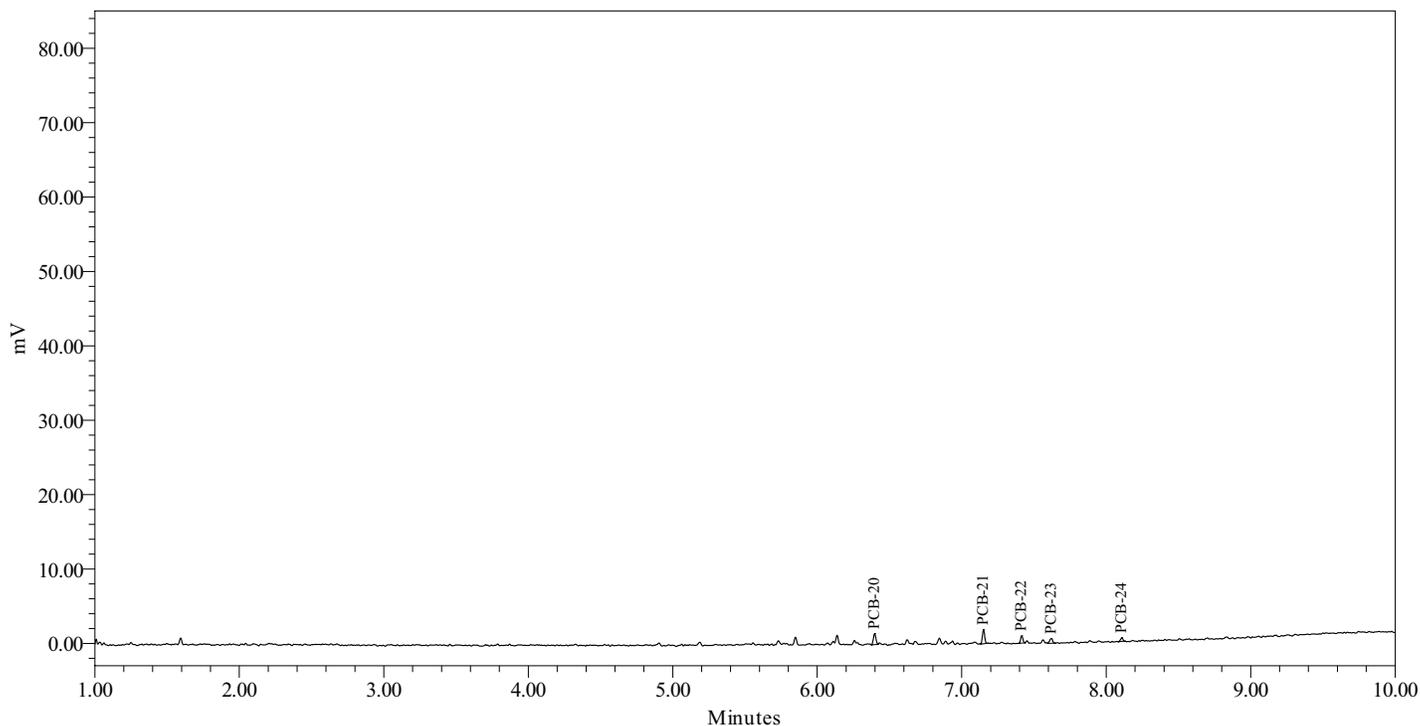
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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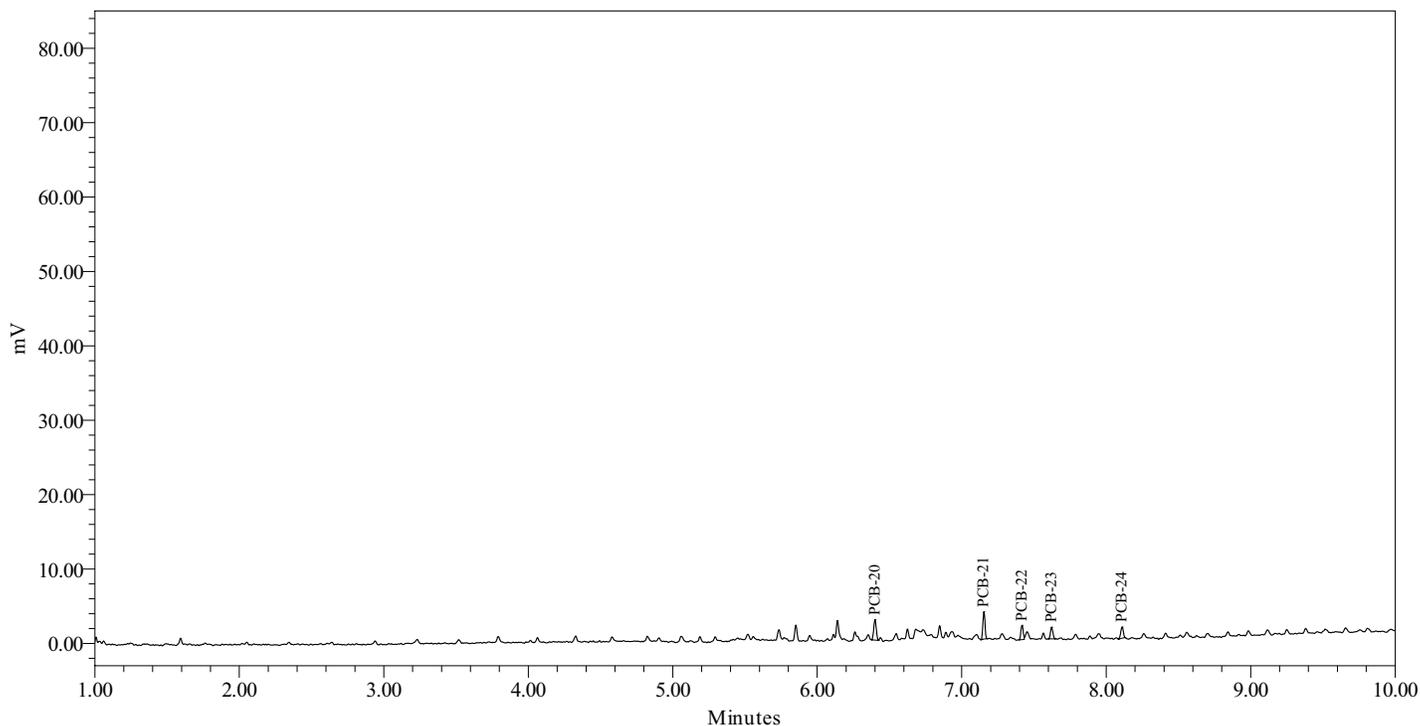
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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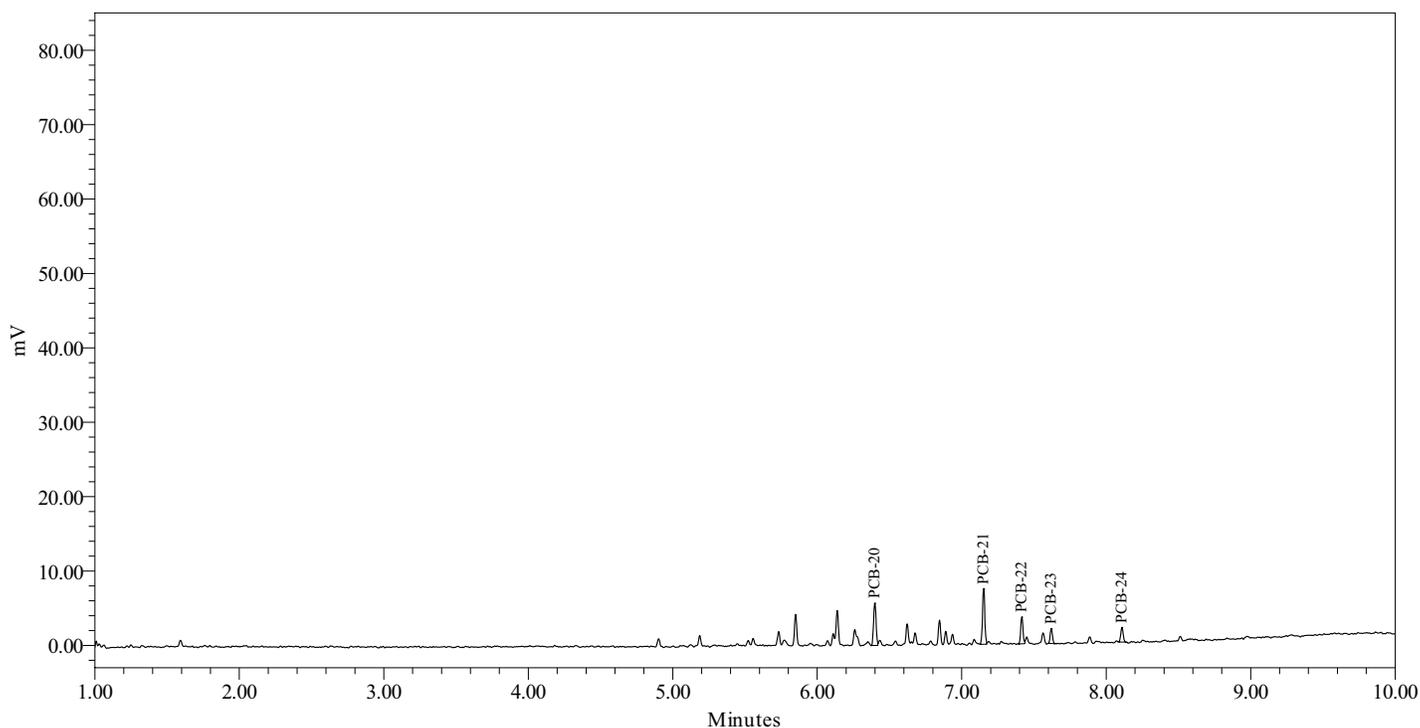
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.398          | bV               | 6857          |
| 2 PCB-21  | 7.152          | bV               | 8361          |
| 3 PCB-22  | 7.416          | bV               | 3857          |
| 4 PCB-23  | 7.620          | bb               | 2258          |
| 5 PCB-24  | 8.109          | bb               | 2285          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 6857                |                      |
| 2 A1254-17/18 | 6857                |                      |
| 3 A1260       | 23617               | 20.000               |
| 4 A1260-20    | 16760               | 20.000               |
| 5 A1260-23/24 | 19075               | 20.000               |
| 6 A1262       | 23617               |                      |
| 7 A1268       | 4543                |                      |



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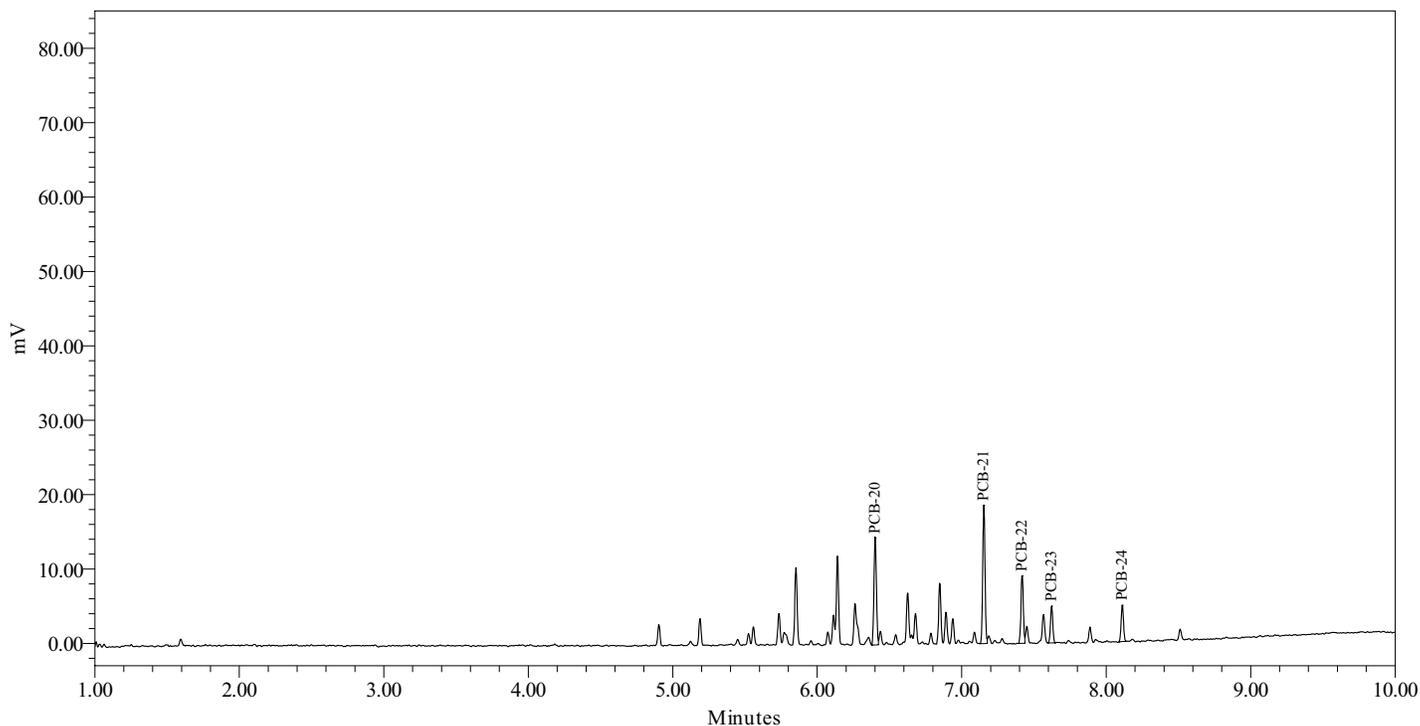
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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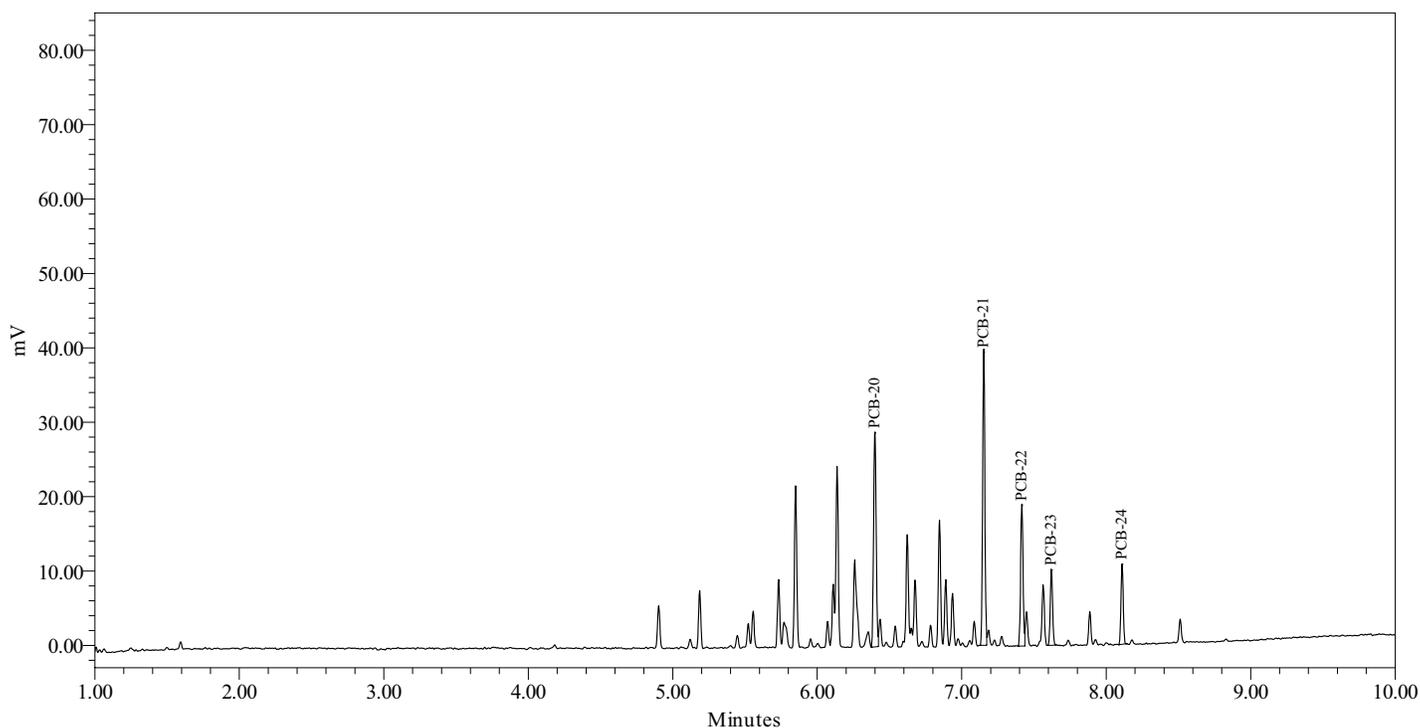
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

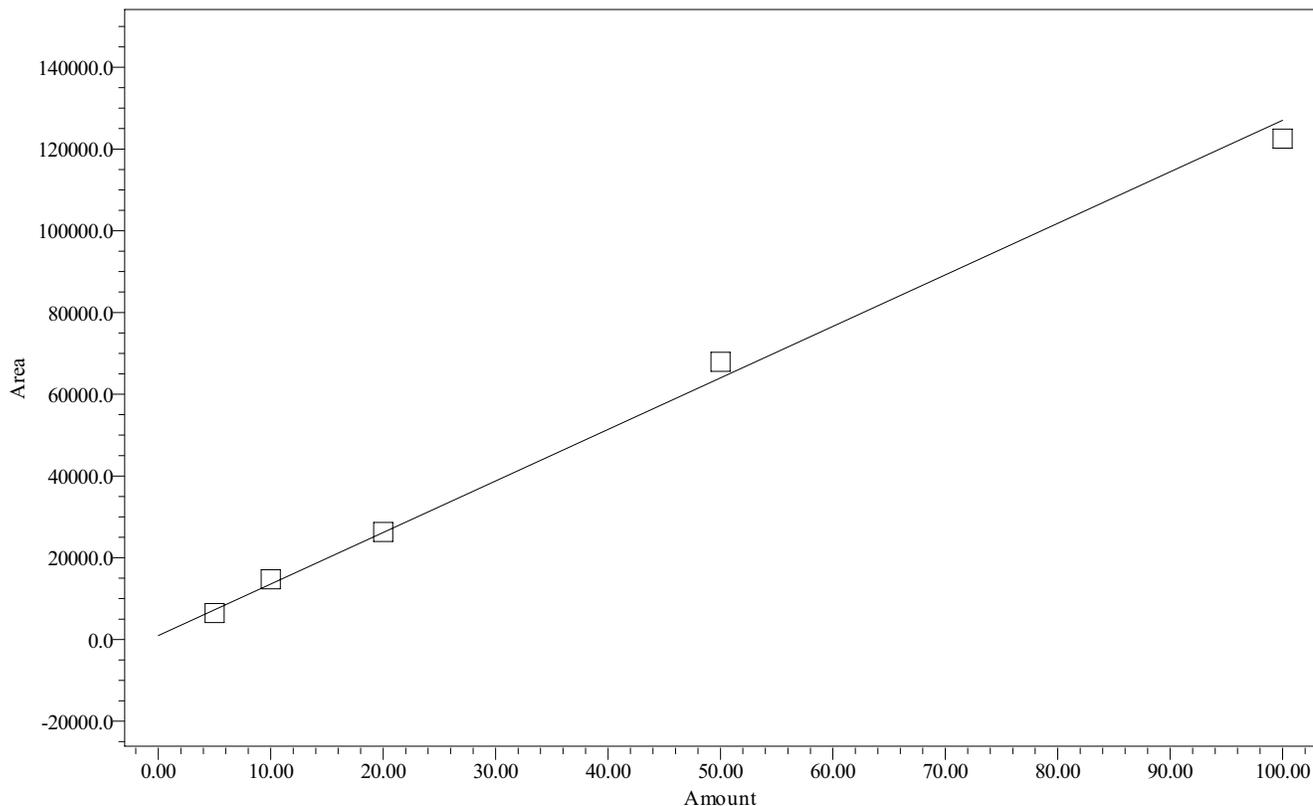
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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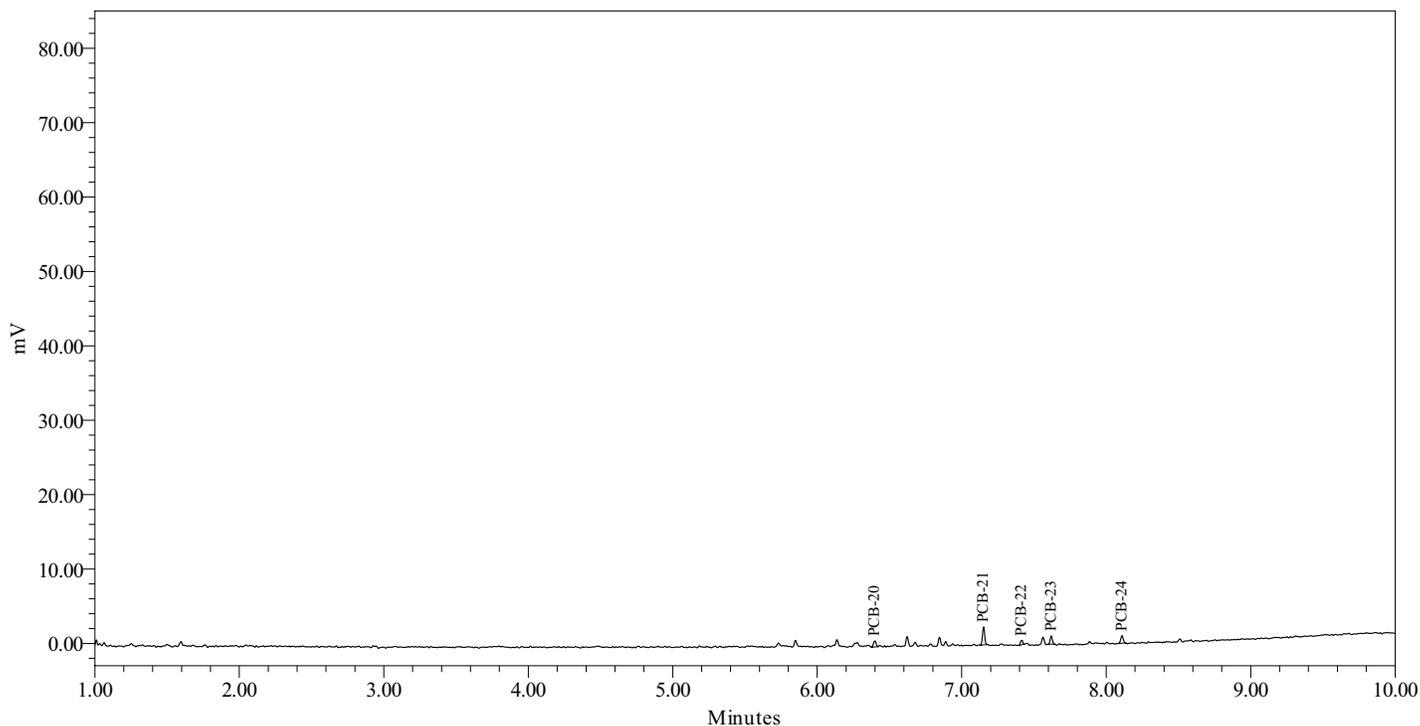
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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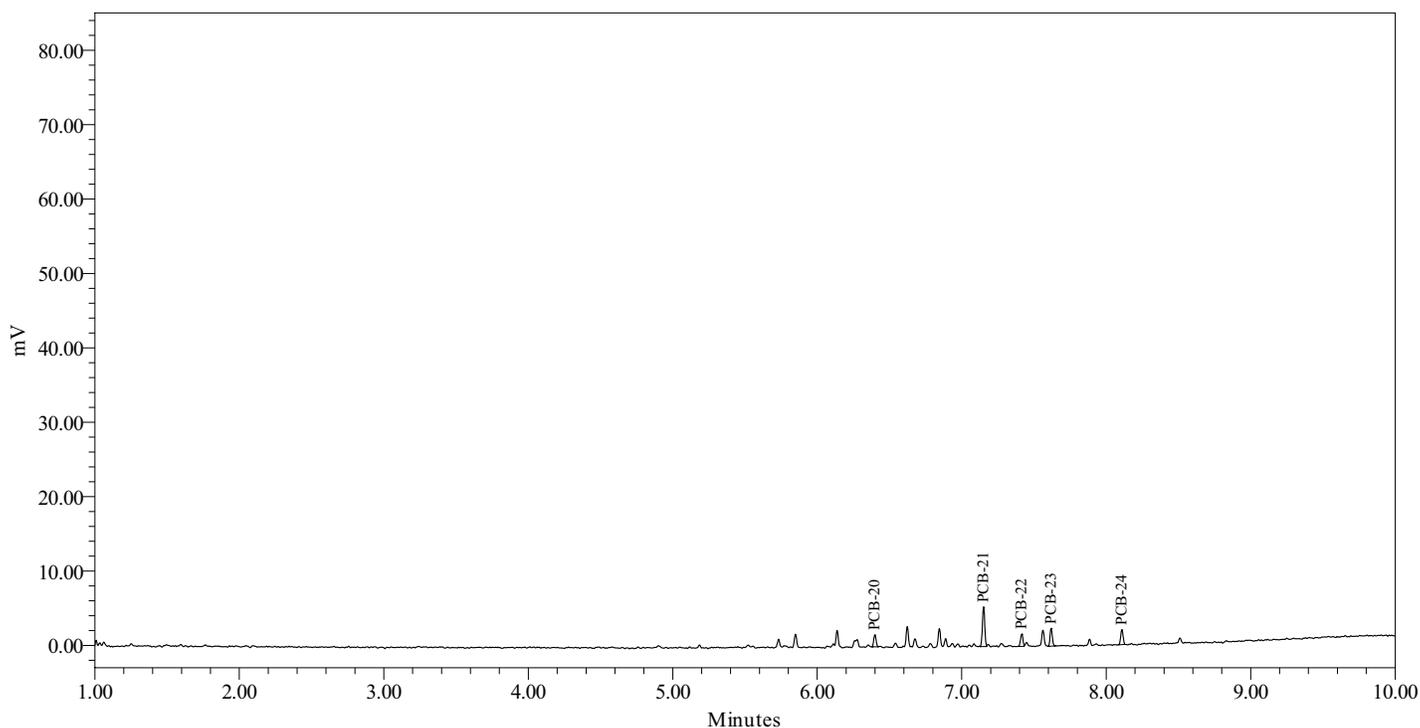
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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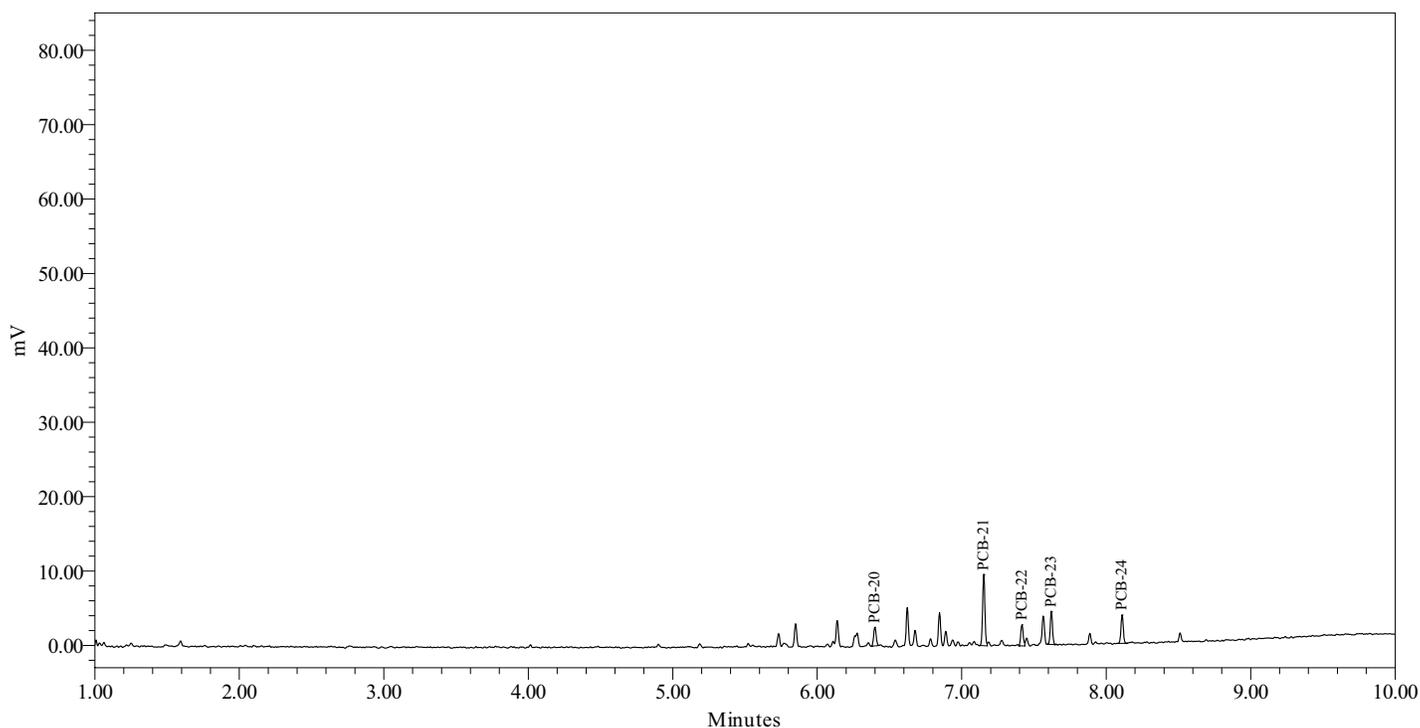
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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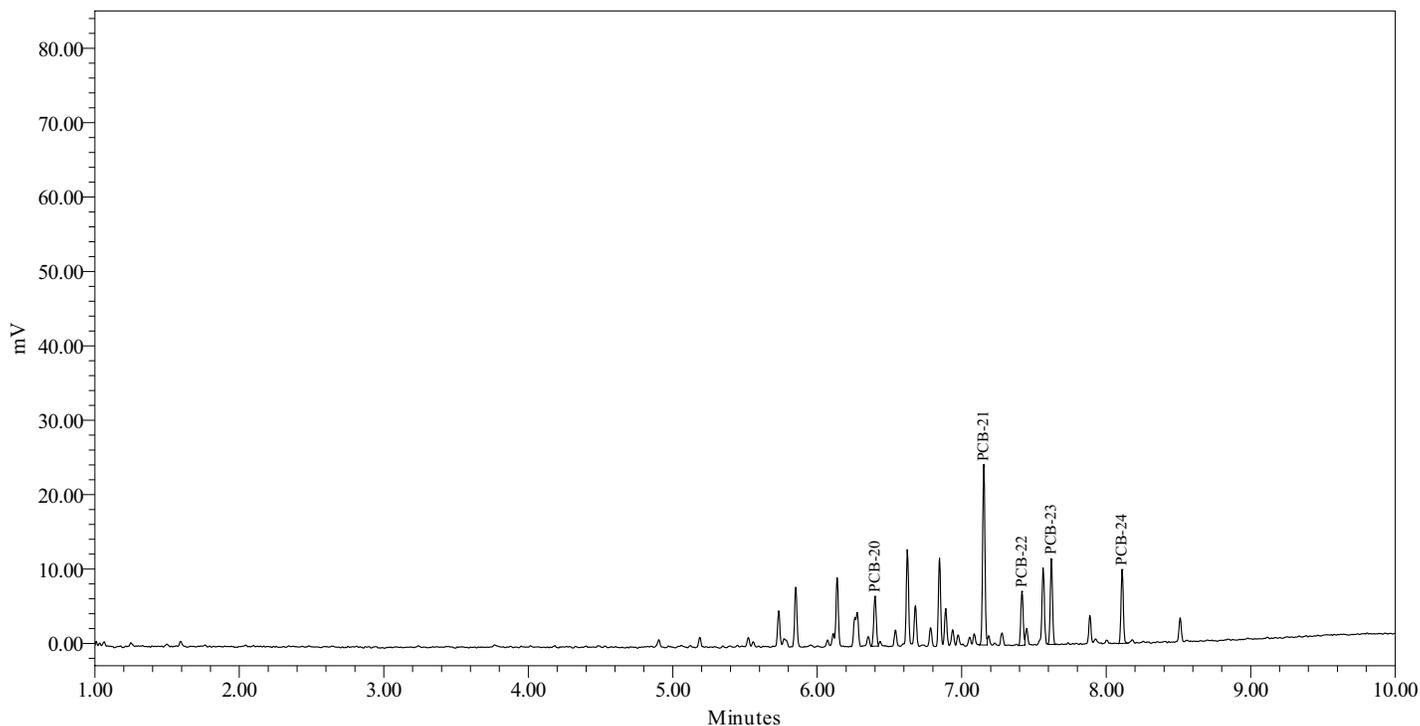
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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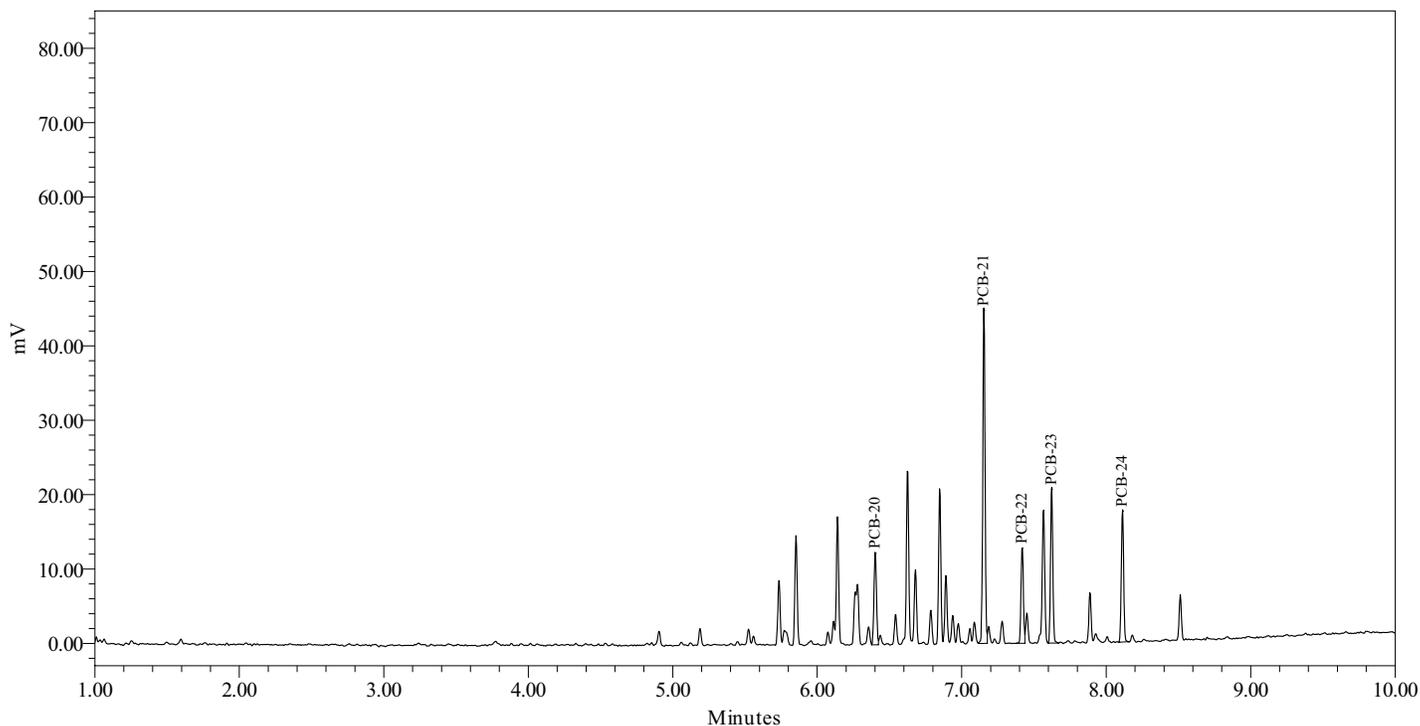
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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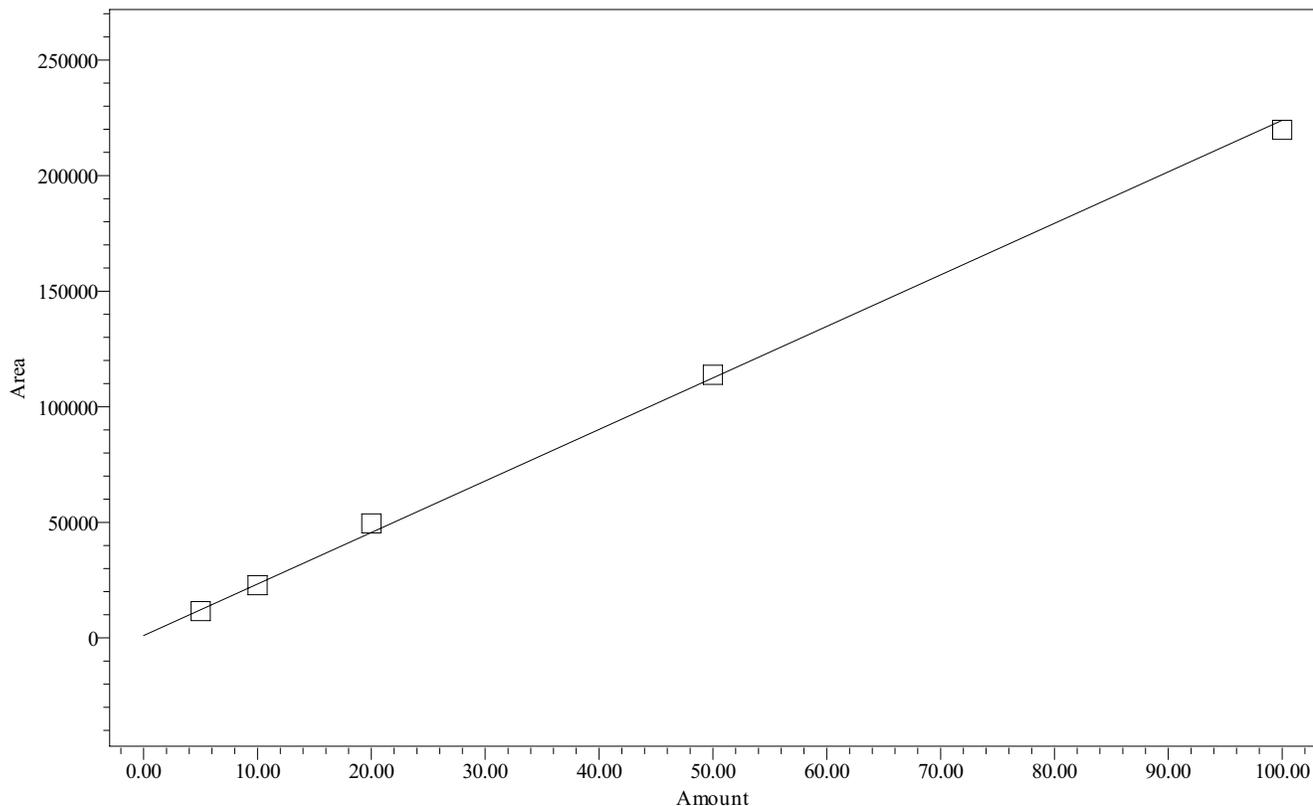
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

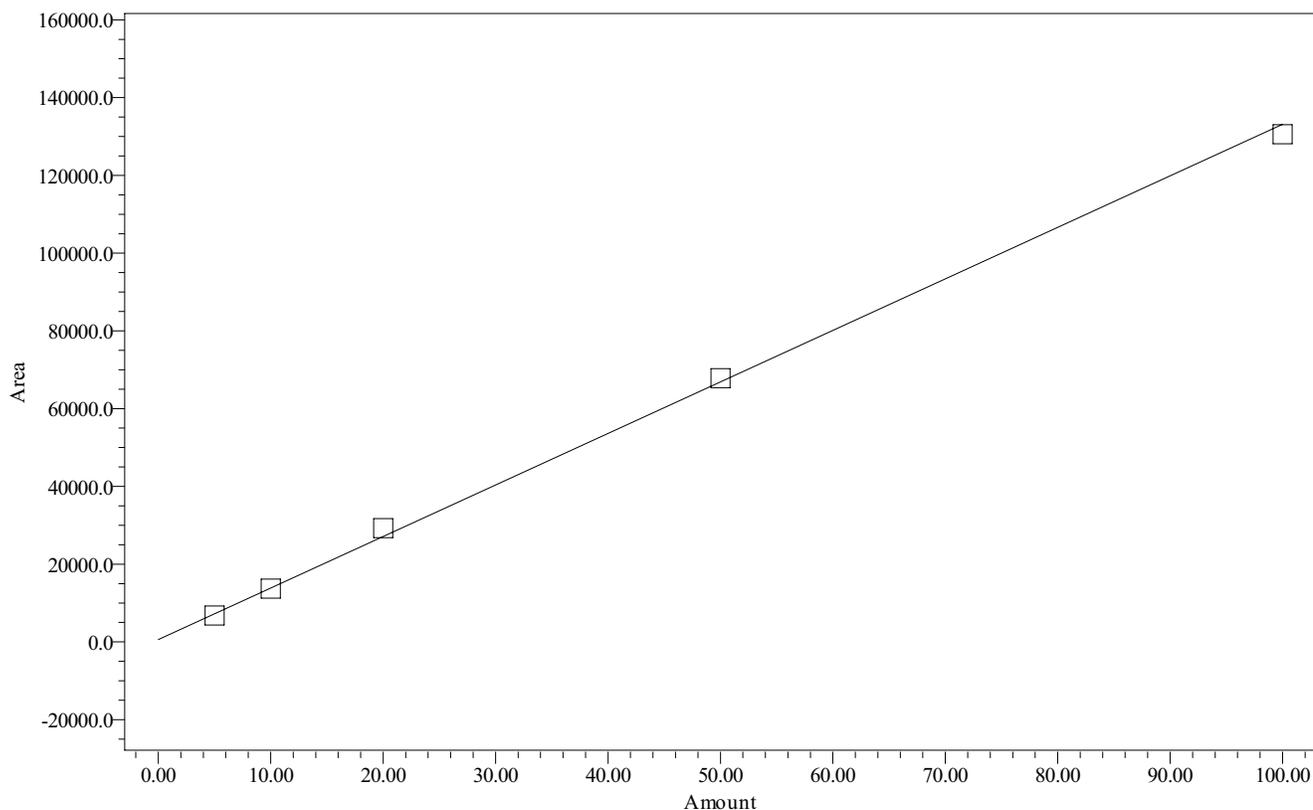
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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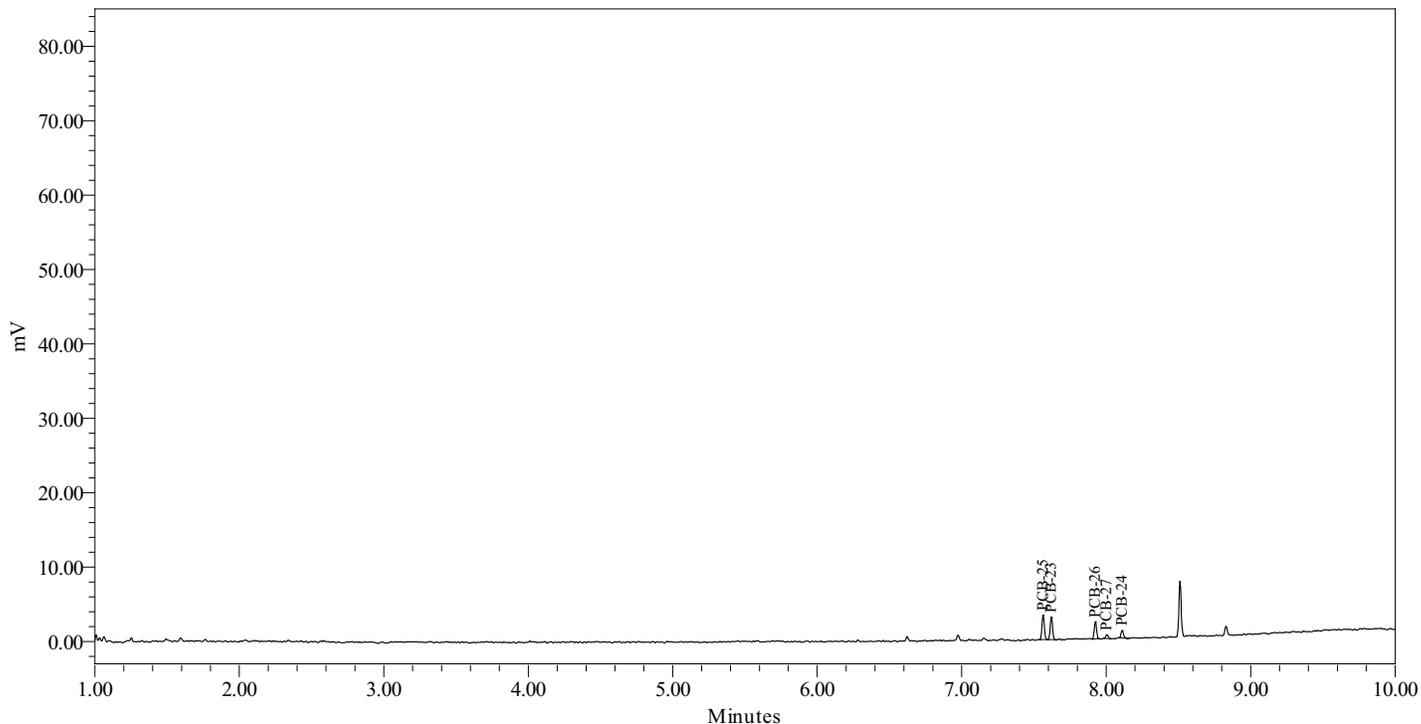
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 3694          |
| 2 PCB-23  | 7.621          | Vb               | 3546          |
| 3 PCB-26  | 7.926          | bb               | 2543          |
| 4 PCB-27  | 8.005          | bb               | 574           |
| 5 PCB-24  | 8.110          | bb               | 1194          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 4741                |                      |
| 2 A1260-20    | 4741                |                      |
| 3 A1262       | 4741                |                      |
| 4 A1268       | 11551               | 5.000                |
| 5 A1268-23/24 | 6811                | 5.000                |



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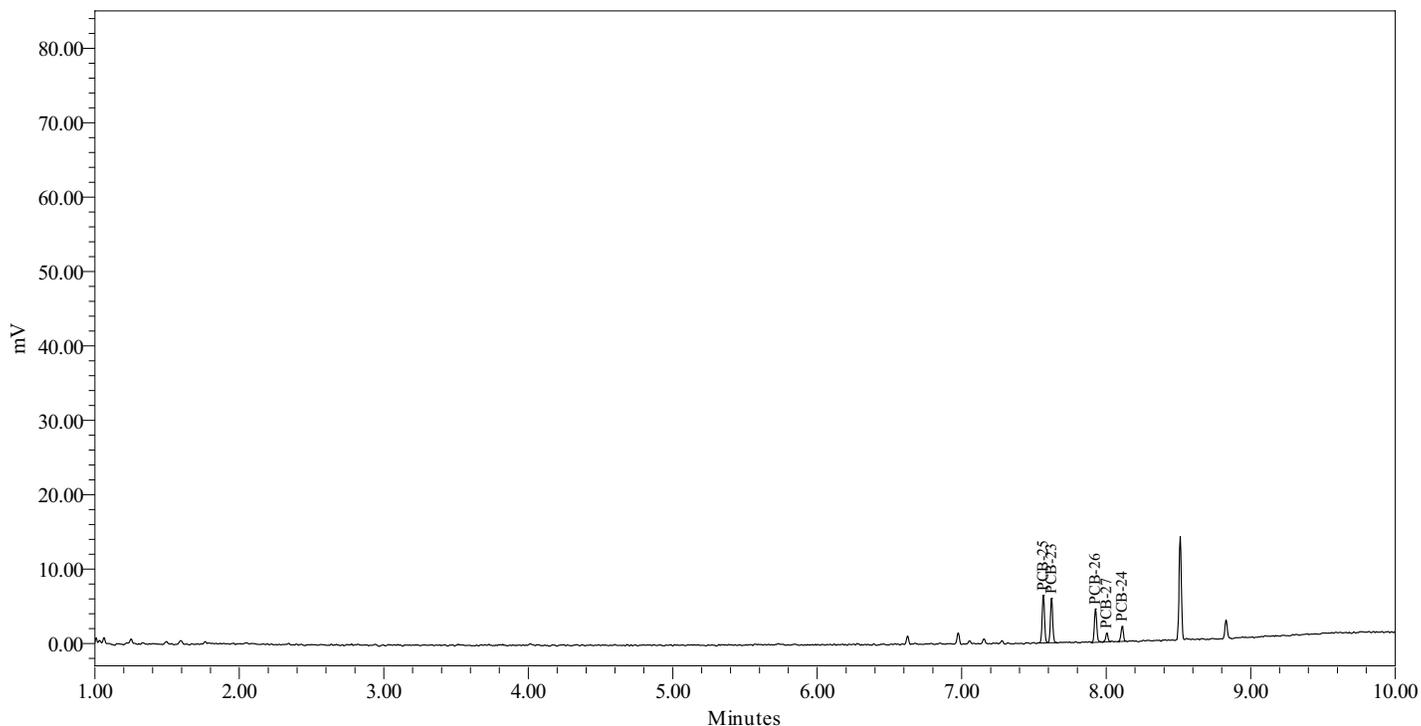
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.565          | bV               | 7178          |
| 2 | PCB-23    | 7.622          | Vb               | 6734          |
| 3 | PCB-26    | 7.926          | bB               | 5273          |
| 4 | PCB-27    | 8.004          | Bb               | 1257          |
| 5 | PCB-24    | 8.111          | bb               | 2332          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 9066                |                      |
| 2 | A1260-20    | 9066                |                      |
| 3 | A1262       | 9066                |                      |
| 4 | A1268       | 22774               | 10.000               |
| 5 | A1268-23/24 | 13708               | 10.000               |



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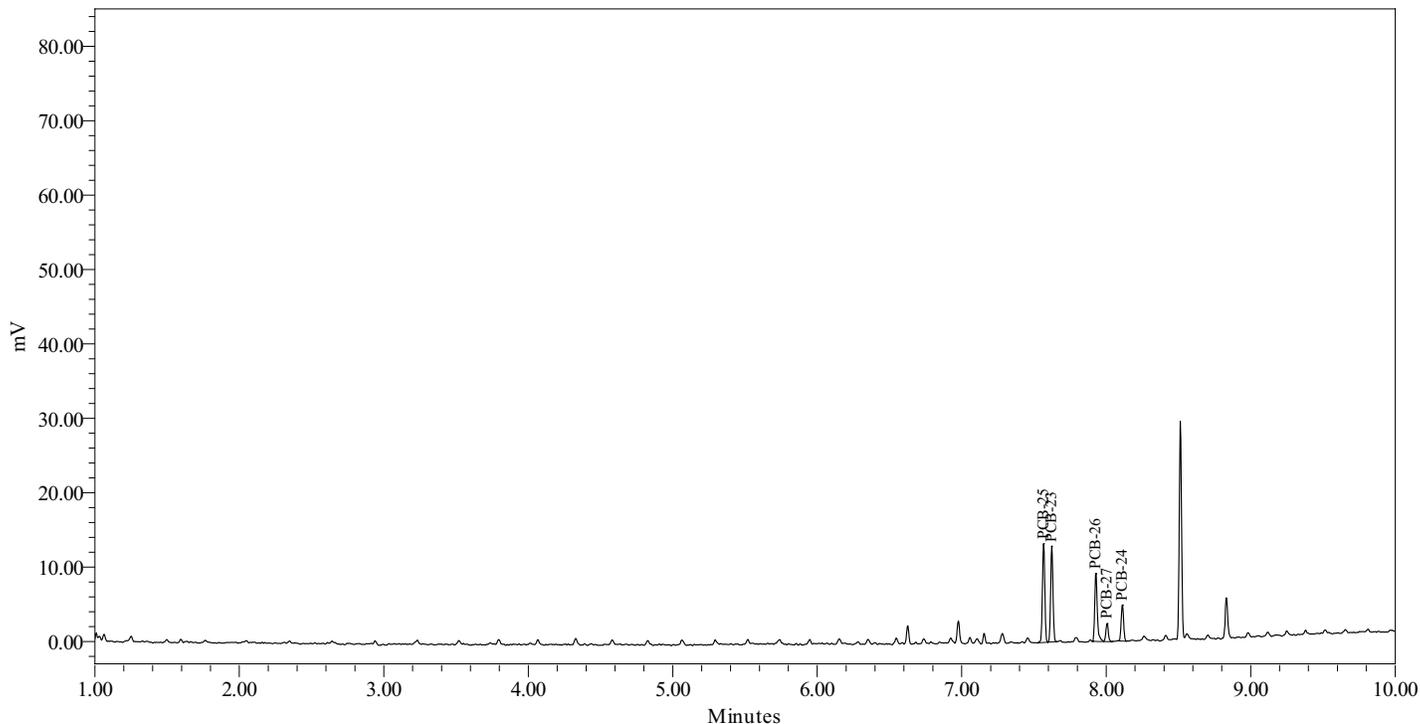
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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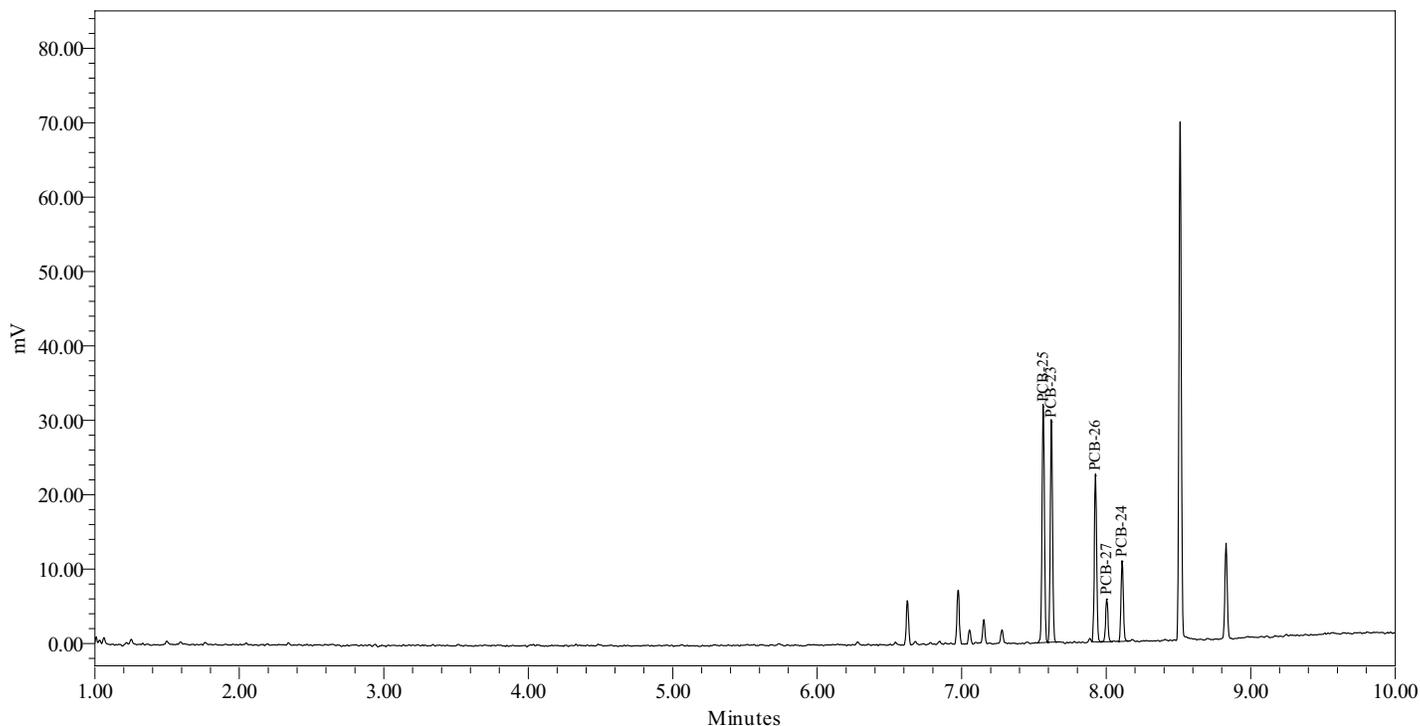
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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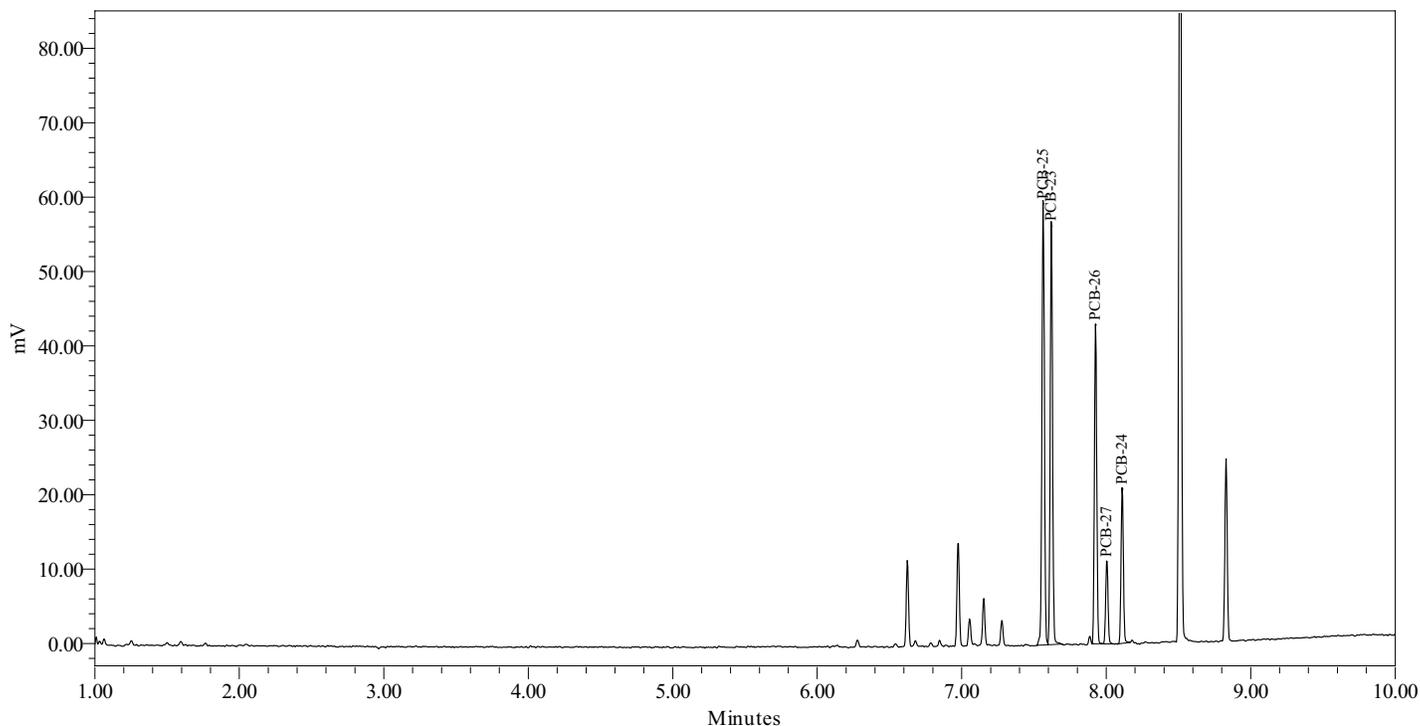
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060055

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1232 | GC28F-1632-30 | CS320603A     | CCV        | 48.4                | 50                 | -3.14              |   | 06/03/2015 18:02:18  |
| Aroclor 1242 | GC28F-1632-41 | CS420603A     | CCV        | 52.8                | 50                 | 5.65               |   | 06/03/2015 20:35:14  |
| Aroclor 1221 | GC28F-1633-6  | CS210604A     | CCV        | 48.6                | 50                 | -2.77              |   | 06/04/2015 10:51:57  |
| Aroclor 1232 | GC28F-1633-14 | CS320604A     | CCV        | 48.8                | 50                 | -2.50              |   | 06/04/2015 15:15:47  |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV        | 52.3                | 50                 | 4.54               |   | 06/04/2015 20:31:19  |
| Aroclor 1260 | GC28F-1633-34 | CS600604A     | CCV        | 53.1                | 50                 | 6.10               |   | 06/04/2015 21:27:03  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060055

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060055

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060055

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1221 | GC28F-1633-6  | CS210604A     | CCV         | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210604A     | CCV         | 2    | 2.29 | 2.22      | 2.38 |
|              |               | CS210604A     | CCV         | 3    | 2.58 | 2.51      | 2.67 |
|              |               | CS210604A     | CCV         | 4    | 2.68 | 2.61      | 2.77 |
|              |               | CS210604A     | CCV         | 5    | 2.75 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1632-30 | CS320603A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320603A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS320603A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS320603A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320603A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
|              | GC28F-1633-14 | CS320604A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320604A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS320604A     | CCV         | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320604A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320604A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1632-41 | CS420603A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420603A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420603A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420603A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420603A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV         | 1    | 5.17 | 5.11      | 5.27 |
|              |               | CS540604A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540604A     | CCV         | 3    | 5.54 | 5.48      | 5.64 |
|              |               | CS540604A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540604A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1633-34 | CS600604A     | CCV         | 1    | 6.39 | 6.32      | 6.48 |
|              |               | CS600604A     | CCV         | 2    | 7.14 | 7.07      | 7.23 |
|              |               | CS600604A     | CCV         | 3    | 7.41 | 7.34      | 7.50 |
|              |               | CS600604A     | CCV         | 4    | 7.61 | 7.54      | 7.70 |
|              |               | CS600604A     | CCV         | 5    | 8.10 | 8.03      | 8.19 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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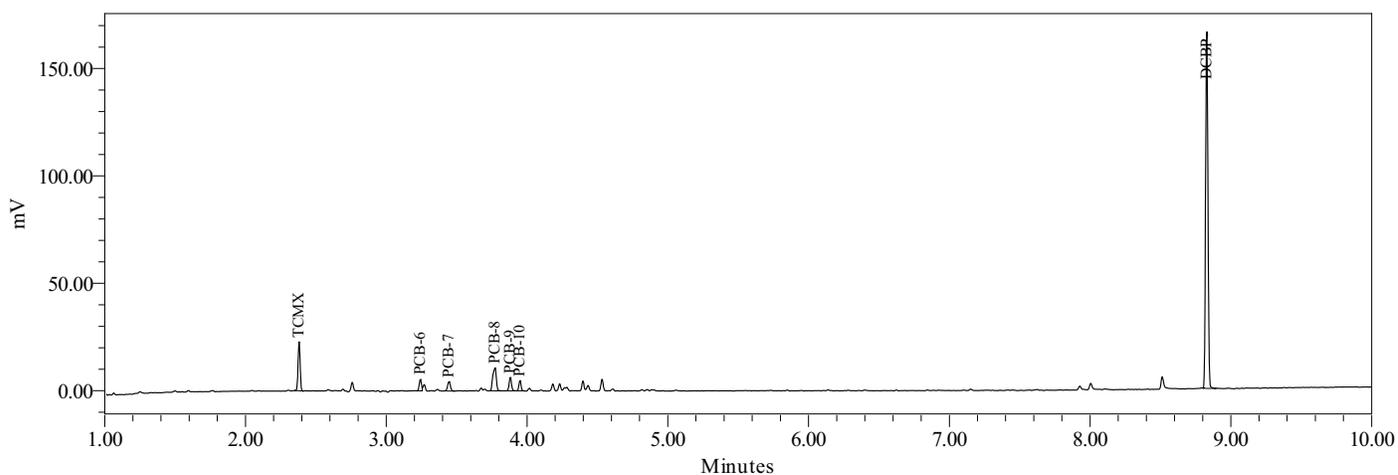
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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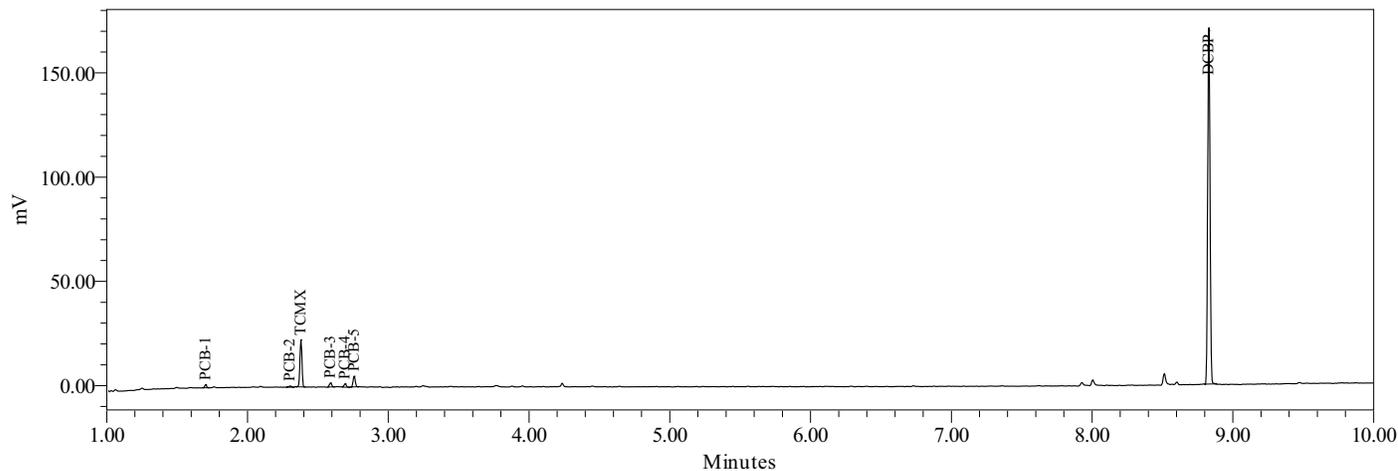
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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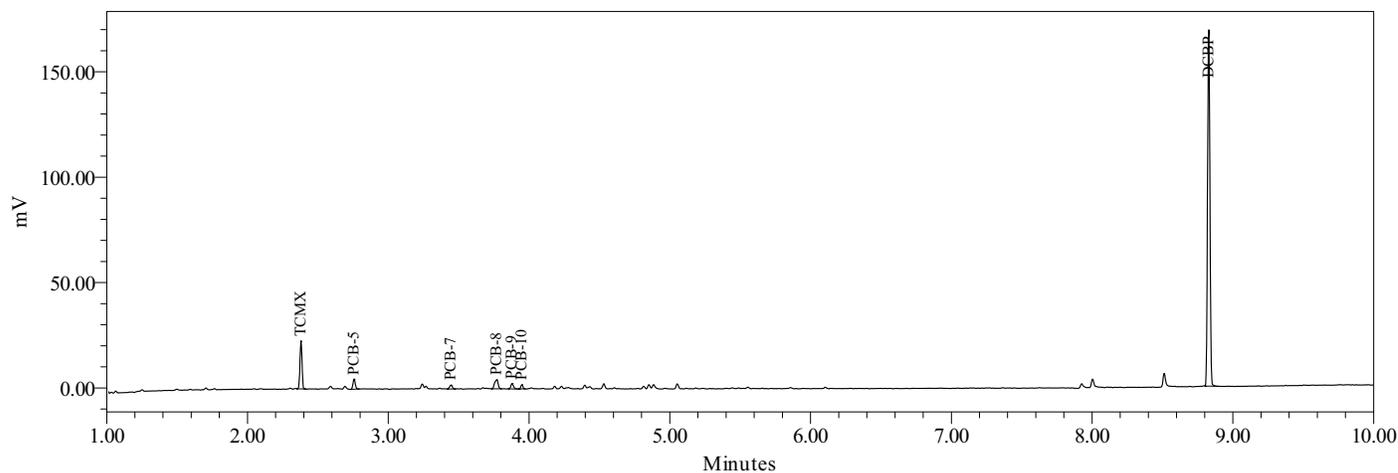
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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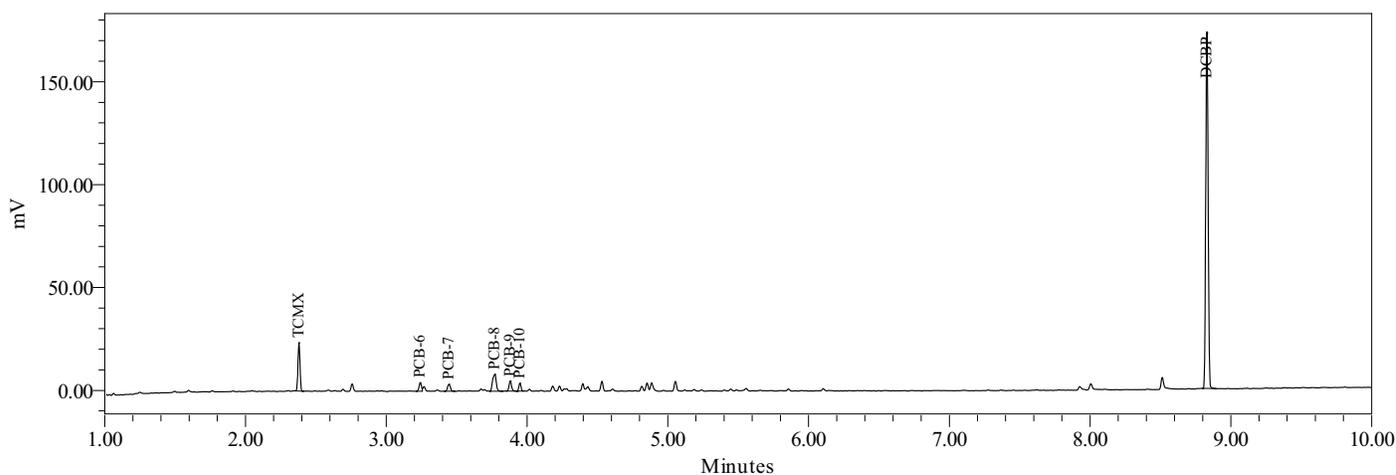
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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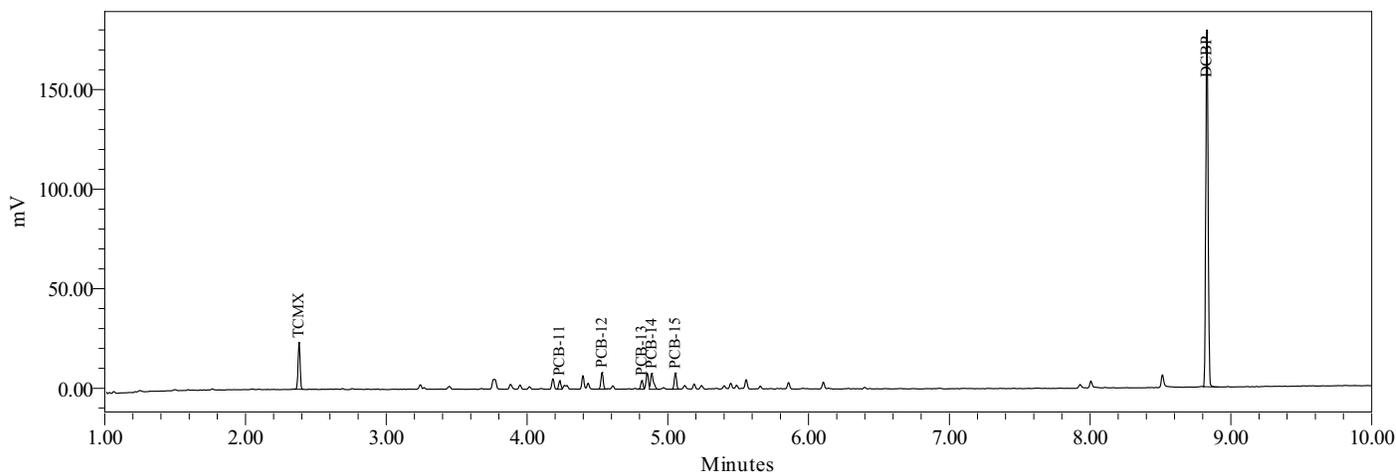
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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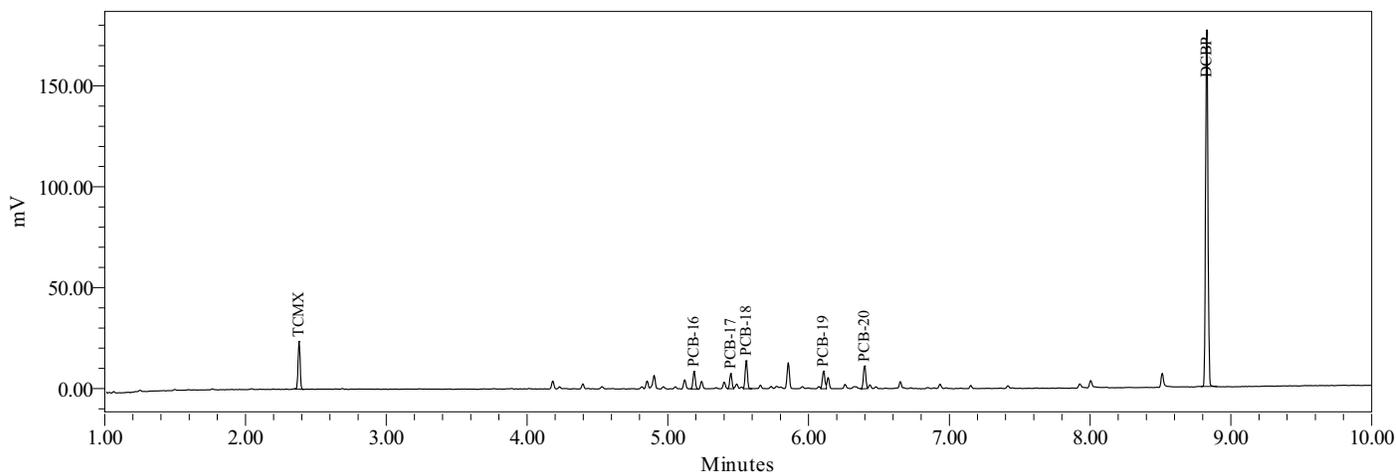
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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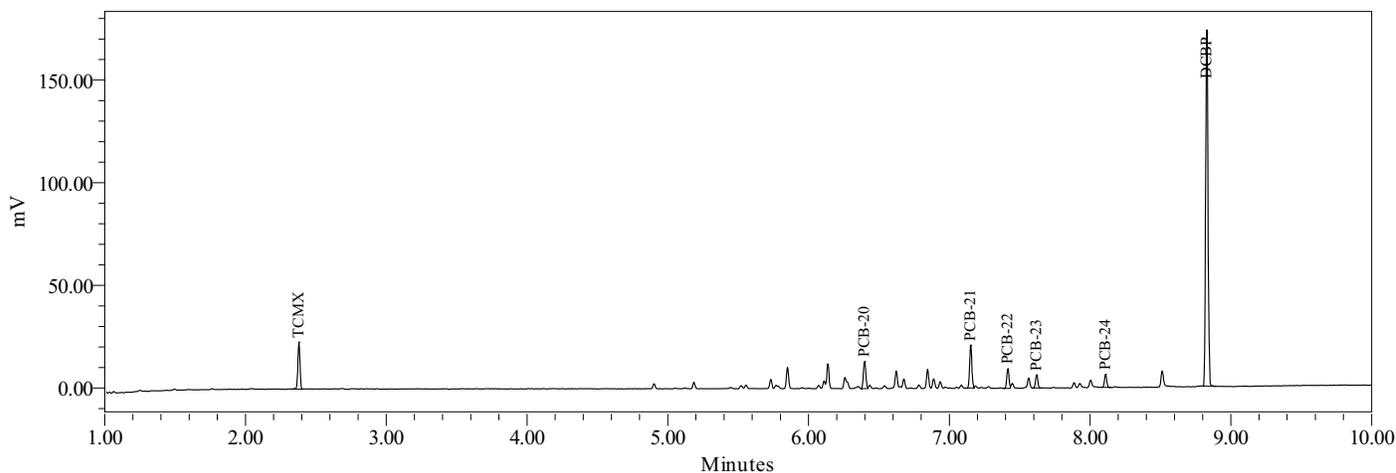
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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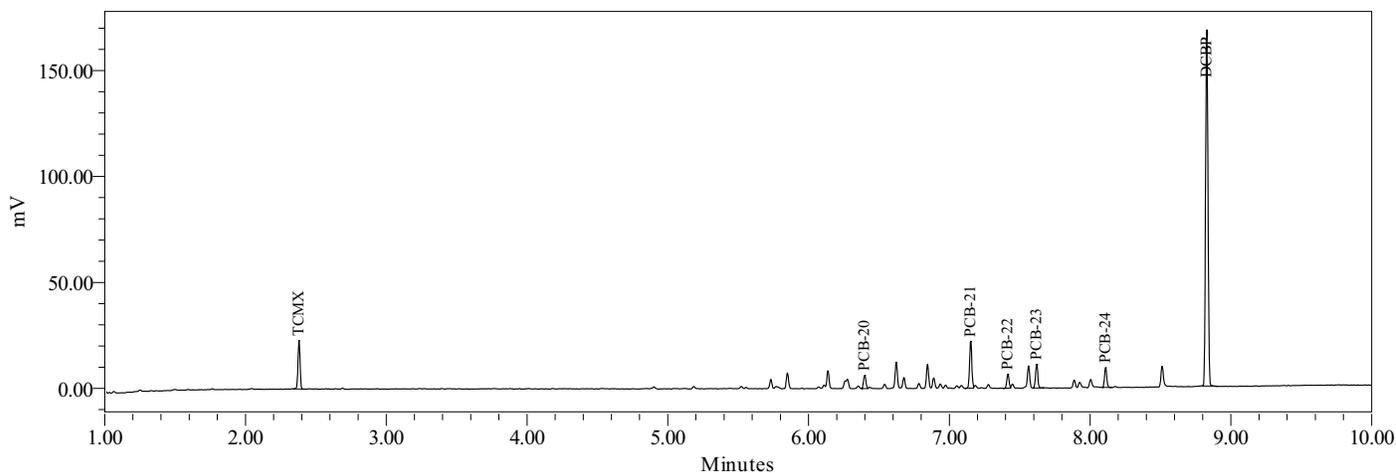
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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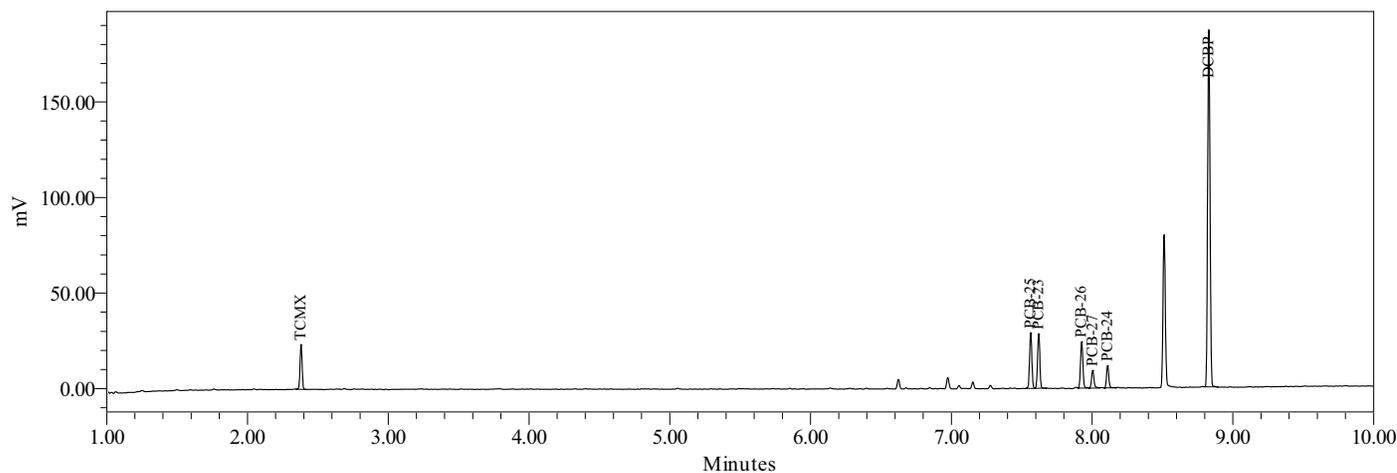
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



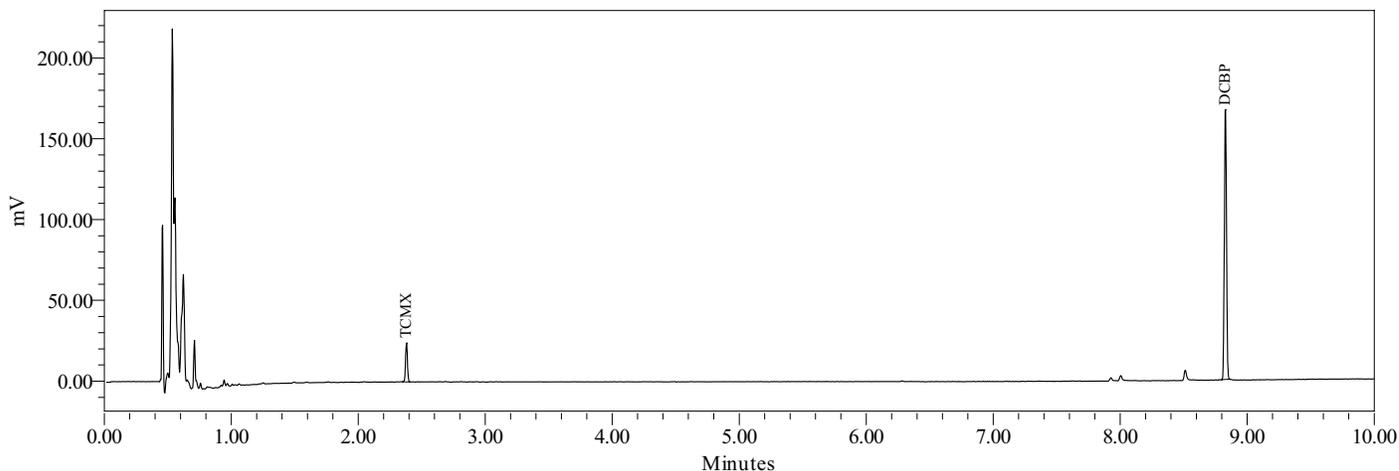
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 TCMX    | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 DCBP    | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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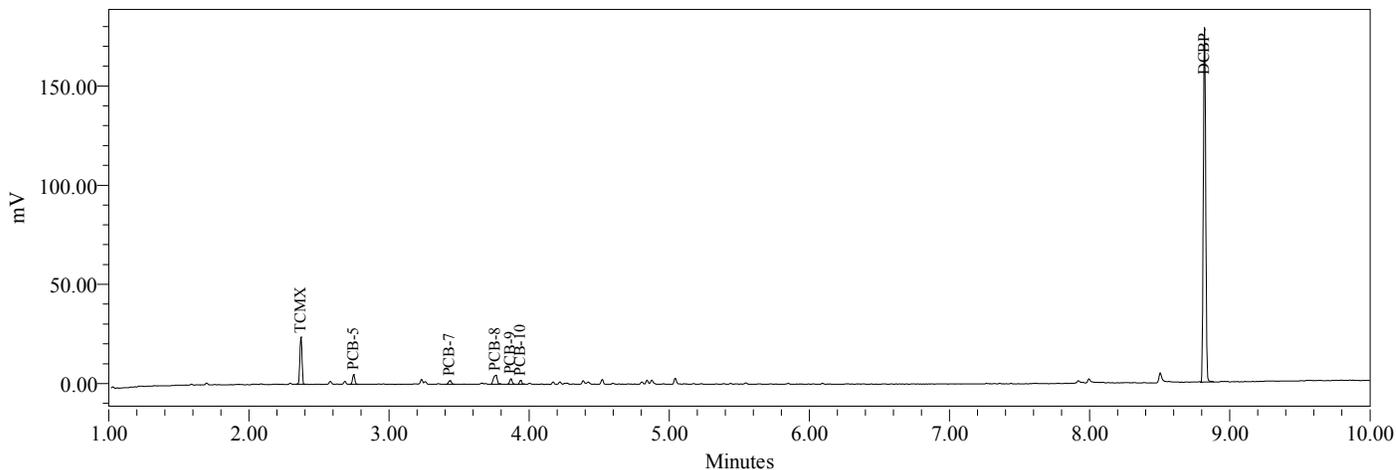
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS320603A               | Sample Amount:  | 1                           |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/3/2015 6:02:18 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/3/2015 6:30:14 PM EDT     |
| Sample Set Name:   | GC28F_060315C           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:35:06 PM US/Eastern      |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-30 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 25319         | 5.193                | 103.9       |             |
| 2 PCB-5   | 2.748          | bb               | 5385          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 2453          |                      |             |             |
| 4 PCB-8   | 3.760          | bb               | 8009          |                      |             |             |
| 5 PCB-9   | 3.870          | bb               | 3217          |                      |             |             |
| 6 PCB-10  | 3.939          | bb               | 2065          |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 206813        | 50.693               |             | 101.4       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 15744               | 18.547               | -62.91              |        |      |
| 2 A1221     | 5385                | 21.461               | -57.08              |        |      |
| 3 A1221-2   | 5385                | 23.123               | -53.75              |        |      |
| 4 A1232     | 21129               | 48.430               | -3.14               | X      |      |
| 5 A1232-8/9 | 9903                | 48.134               | -3.73               |        |      |
| 6 A1242     | 15744               | 23.767               | -52.47              |        |      |



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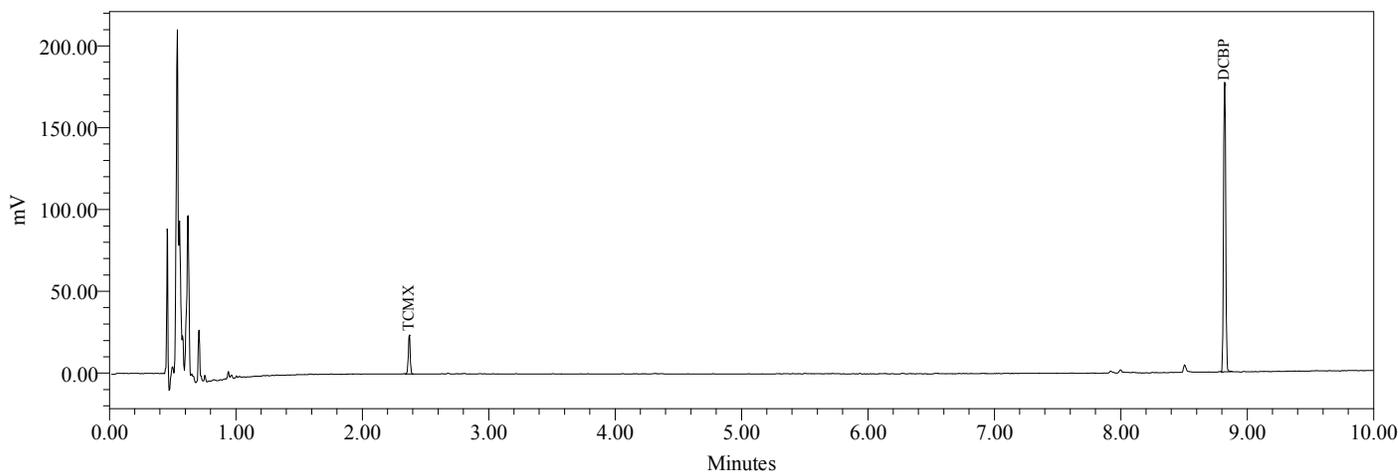
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Sample Name: 150603B10 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/3/2015 6:16:15 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/3/2015 6:30:29 PM EDT  
Sample Set Name: GC28F\_060315C User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 10:35:52 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1632-31 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.373          | bb               | 24990         | 5.125                | 102.49024 |           |
| 2 DCBP    | 8.822          | bb               | 212500        | 52.181               |           | 104.36144 |



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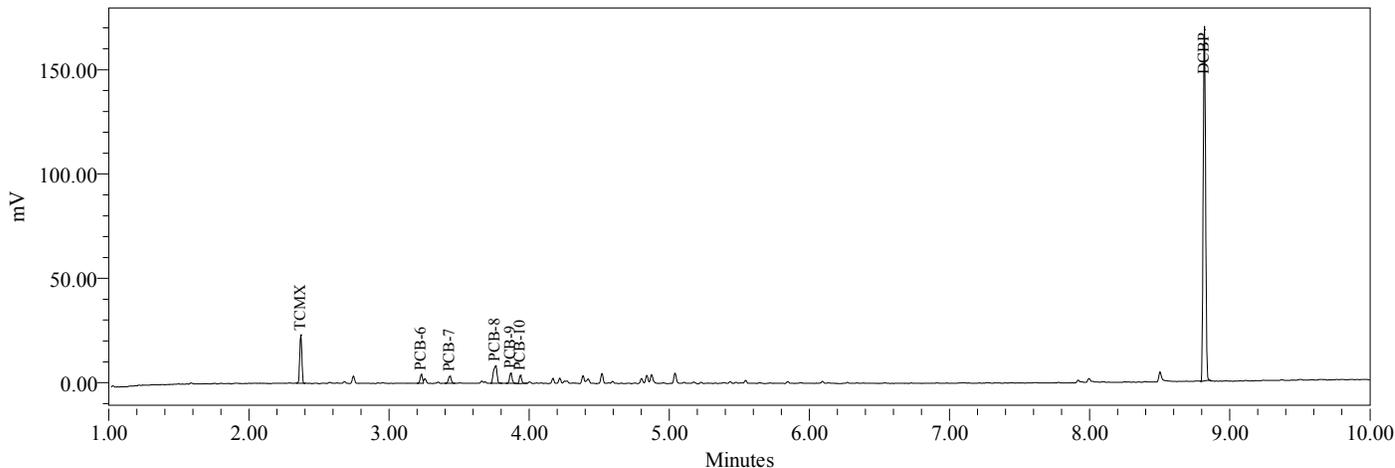
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS420603A               | Sample Amount:  | 1                           |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/3/2015 8:35:14 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/3/2015 8:45:50 PM EDT     |
| Sample Set Name:   | GC28F_060315d           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:35:14 PM US/Eastern      |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-41 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | vV               | 24528         | 5.028                | 100.6       |             |
| 2 PCB-6   | 3.230          | BV               | 4835          |                      |             |             |
| 3 PCB-7   | 3.433          | BB               | 4802          |                      |             |             |
| 4 PCB-8   | 3.759          | BB               | 14765         |                      |             |             |
| 5 PCB-9   | 3.869          | BB               | 6127          |                      |             |             |
| 6 PCB-10  | 3.937          | VB               | 4322          |                      |             |             |
| 7 DCBP    | 8.819          | BB               | 198431        | 48.501               |             | 97.0        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 34851               | 41.274               | -17.45              |        |      |
| 2 A1232     | 30016               | 68.805               | 37.61               |        |      |
| 3 A1232-8/9 | 9124                | 44.311               | -11.38              |        |      |
| 4 A1242     | 34851               | 52.826               | 5.65                | X      |      |



12

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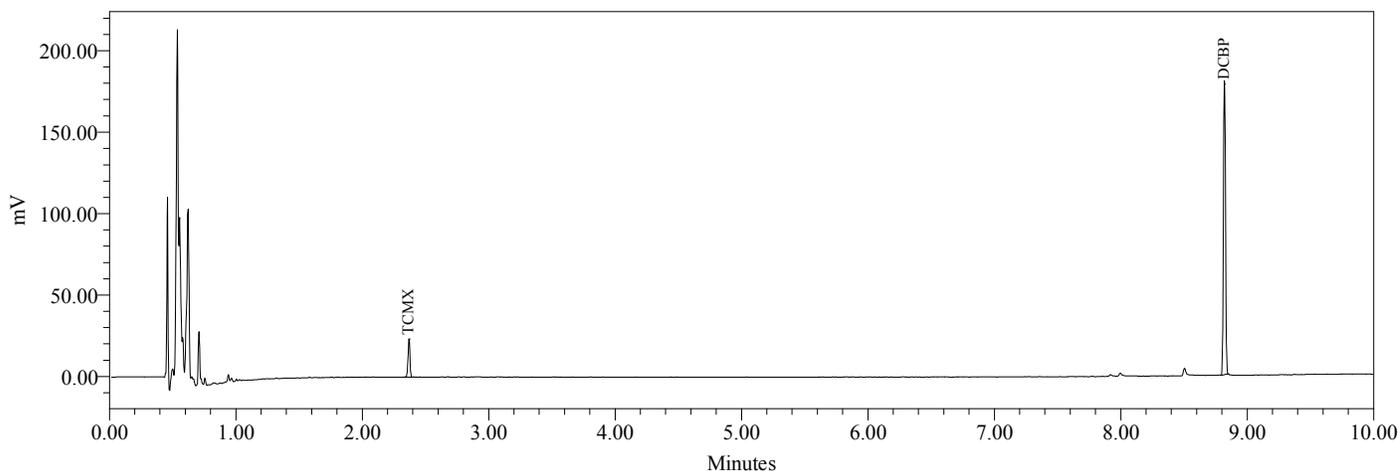
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Sample Name: 150603B12 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/3/2015 8:48:49 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/3/2015 9:06:27 PM EDT  
Sample Set Name: GC28F\_060315d User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 10:35:47 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1632-42 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.370          | BB               | 24748         | 5.074                | 101.47544 |           |
| 2 DCBP    | 8.821          | BB               | 205460        | 50.339               |           | 100.67847 |



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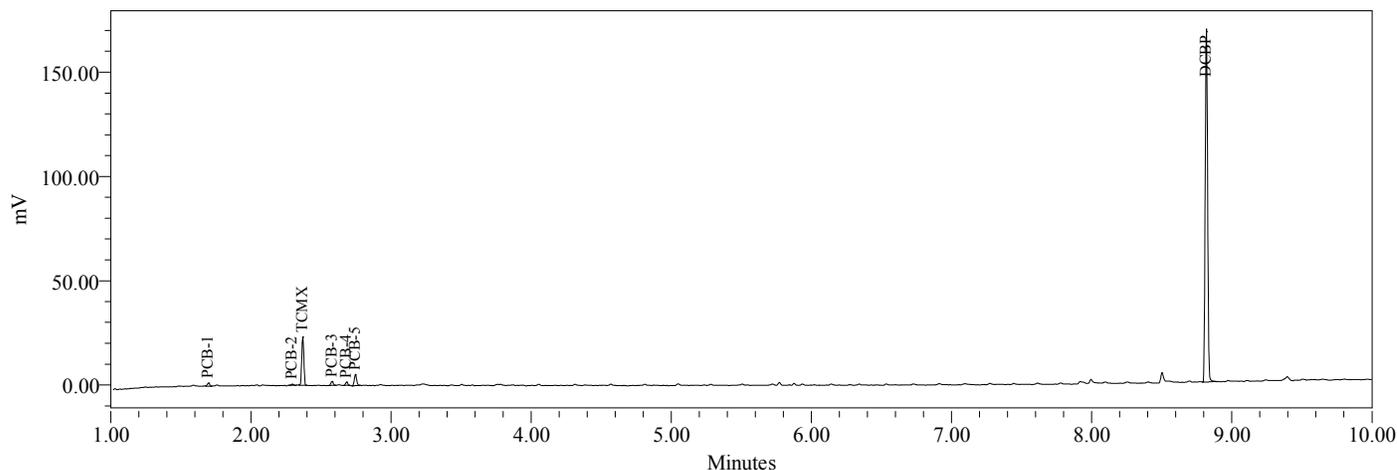
|                    |                          |                 |                             |
|--------------------|--------------------------|-----------------|-----------------------------|
| Sample Name:       | CS210604A                | Sample Amount:  | 1                           |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 10:51:57 AM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/4/2015 11:15:30 AM EDT    |
| Sample Set Name:   | GC28F_060415             | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:38 PM US/Eastern      |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1633-6 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.697          | vB               | 1656          |                      |             |             |
| 2 PCB-2   | 2.295          | BV               | 733           |                      |             |             |
| 3 TCMX    | 2.370          | VB               | 24021         | 4.922                | 98.4        |             |
| 4 PCB-3   | 2.580          | Bb               | 2266          |                      |             |             |
| 5 PCB-4   | 2.683          | Bb               | 1618          |                      |             |             |
| 6 PCB-5   | 2.747          | BB               | 5946          |                      |             |             |
| 7 DCBP    | 8.820          | Bb               | 199551        | 48.793               |             | 97.6        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1221     | 12218               | 48.615               | -2.77               | X      |      |
| 2 A1221-2   | 11486               | 48.620               | -2.76               |        |      |
| 3 A1221-5   | 6272                | 50.129               | 0.26                |        |      |
| 4 A1232     | 5946                | 13.622               | -72.76              |        |      |
| 5 A1232-8/9 | 5946                | 28.712               | -42.58              |        |      |



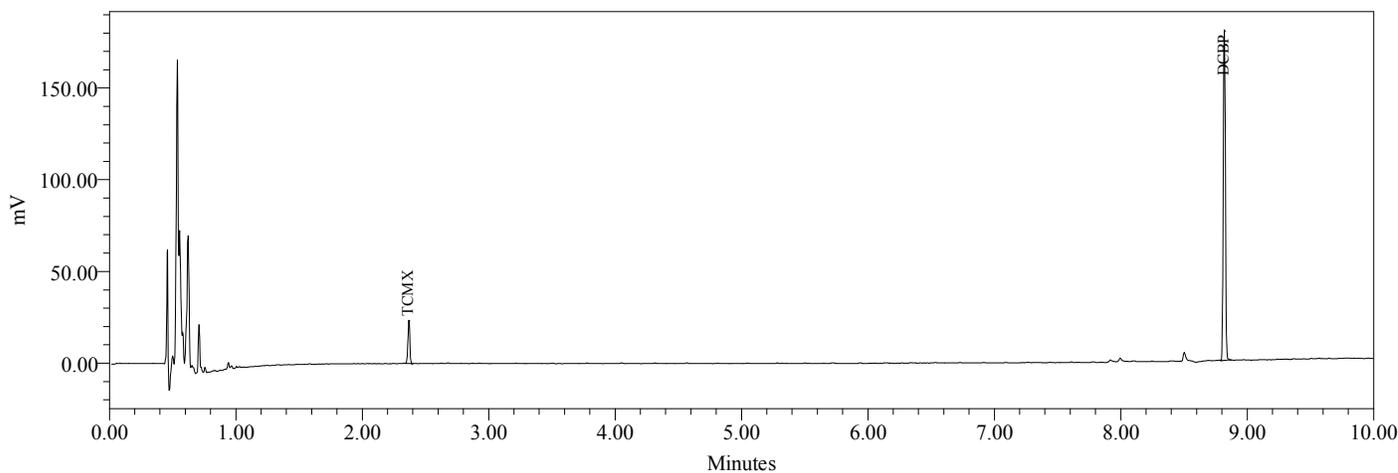
12

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|                    |                          |                 |                             |
|--------------------|--------------------------|-----------------|-----------------------------|
| Sample Name:       | 150604B04                | Sample Amount:  | 1                           |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 11:05:34 AM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/4/2015 11:16:31 AM EDT    |
| Sample Set Name:   | GC28F_060415             | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 PM US/Eastern      |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1633-7 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.369          | vB               | 25006         | 5.128                | 102.55769 |           |
| 2 DCBP    | 8.820          | Bb               | 210296        | 51.604               |           | 103.20822 |



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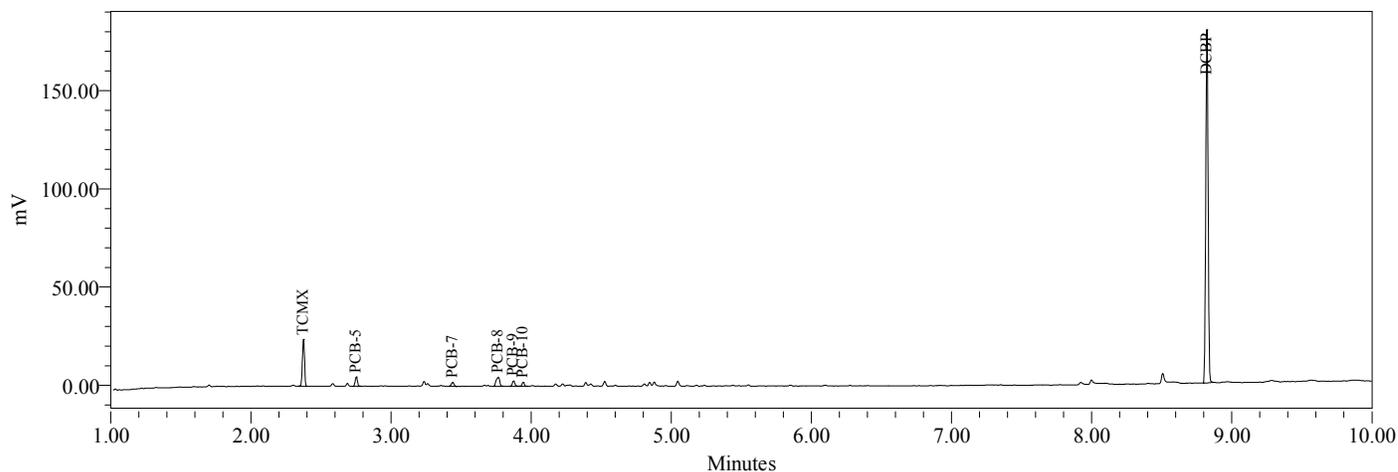
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS320604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 3:15:47 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 3:28:28 PM EDT     |
| Sample Set Name:   | GC28F_060415b           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:37:32 PM US/Eastern      |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-14 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.375          | bb               | 25397         | 5.210                | 104.2       |             |
| 2 PCB-5   | 2.752          | bb               | 5332          |                      |             |             |
| 3 PCB-7   | 3.439          | bb               | 2584          |                      |             |             |
| 4 PCB-8   | 3.765          | bb               | 7724          |                      |             |             |
| 5 PCB-9   | 3.874          | bB               | 3347          |                      |             |             |
| 6 PCB-10  | 3.943          | Bb               | 2282          |                      |             |             |
| 7 DCBP    | 8.823          | bb               | 205649        | 50.389               |             | 100.8       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 15938               | 18.777               | -62.45              |        |      |
| 2 A1221     | 5332                | 21.250               | -57.50              |        |      |
| 3 A1221-2   | 5332                | 22.901               | -54.20              |        |      |
| 4 A1232     | 21269               | 48.752               | -2.50               | X      |      |
| 5 A1232-8/9 | 10198               | 49.583               | -0.83               |        |      |
| 6 A1242     | 15938               | 24.061               | -51.88              |        |      |



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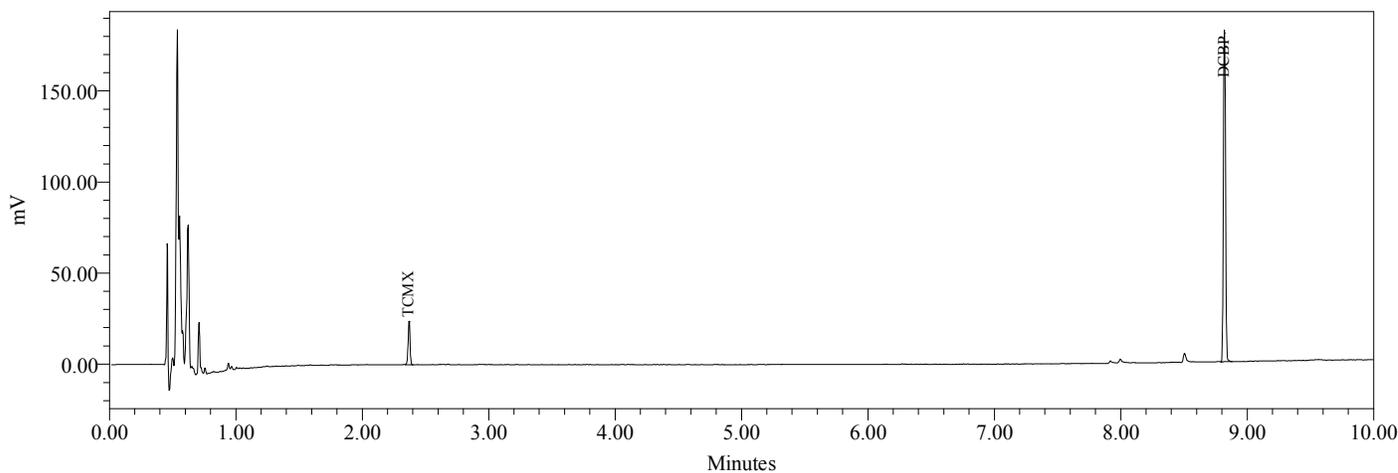
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|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | 150604B05               | Sample Amount:  | 1                           |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 3:29:47 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 3:46:59 PM EDT     |
| Sample Set Name:   | GC28F_060415b           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:38:08 PM US/Eastern      |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1633-15 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | VB               | 25555         | 5.243                | 104.85746 |           |
| 2 DCBP    | 8.821          | Bb               | 214923        | 52.815               |           | 105.62938 |



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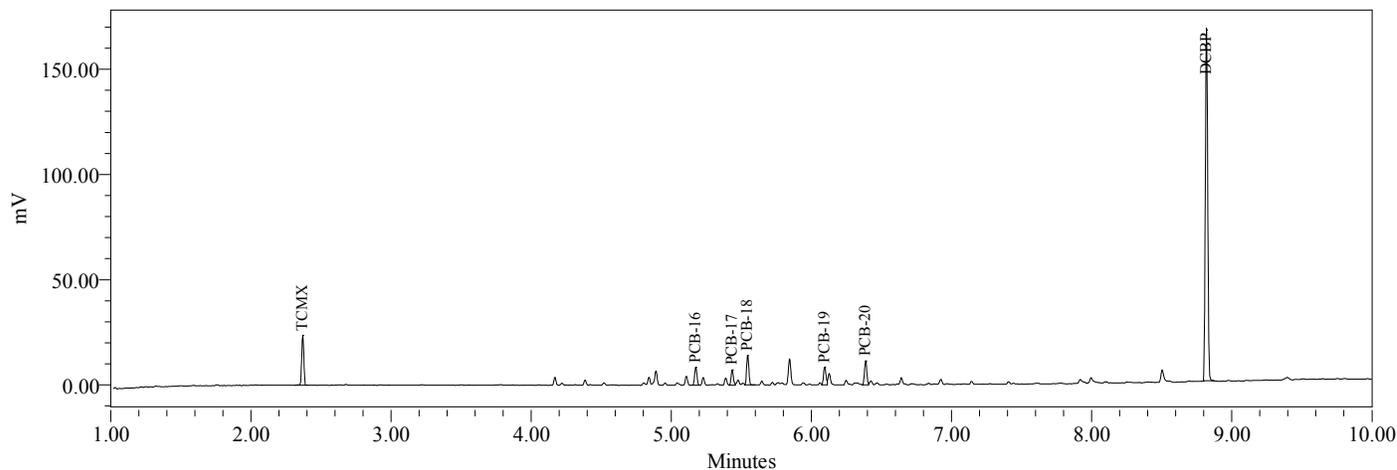
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS540604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 8:31:19 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 8:45:10 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:22:56 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-30 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | bb               | 25248         | 5.178                | 103.6       |             |
| 2 PCB-16  | 5.175          | bb               | 9730          |                      |             |             |
| 3 PCB-17  | 5.435          | VV               | 8465          |                      |             |             |
| 4 PCB-18  | 5.545          | Vb               | 15715         |                      |             |             |
| 5 PCB-19  | 6.096          | VV               | 10416         |                      |             |             |
| 6 PCB-20  | 6.387          | bV               | 13511         |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 194901        | 47.577               |             | 95.2        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 57837               | 52.270               | 4.54                | X      |      |
| 2 A1254-17/18 | 33657               | 52.276               | 4.55                |        |      |
| 3 A1254-19/20 | 33909               | 52.339               | 4.68                |        |      |
| 4 A1254-20    | 44326               | 52.062               | 4.12                |        |      |
| 5 A1260       | 13511               | 10.963               | -78.07              |        |      |
| 6 A1260-23/24 | 13511               | 14.002               | -72.00              |        |      |
| 7 A1262       | 13511               | 9.945                | -80.11              |        |      |



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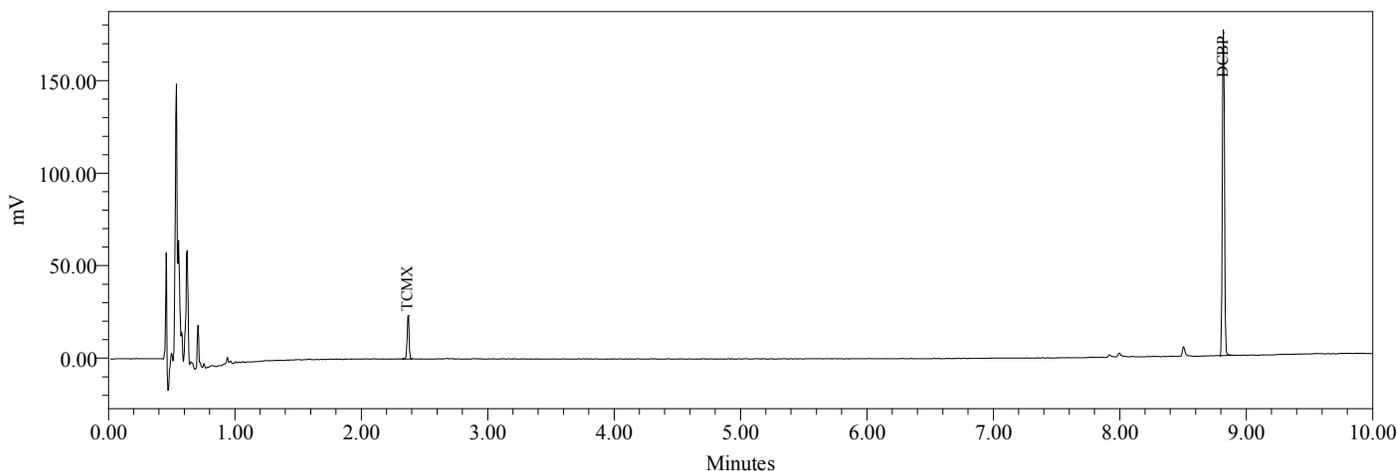
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Sample Name: 150604B11 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 8:45:18 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 8:56:32 PM EDT  
Sample Set Name: GC28F\_W\_060415B User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 9:19:23 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-31 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25024         | 5.132                | 102.63042 |           |
| 2 DCBP    | 8.820          | bb               | 207479        | 50.867               |           | 101.73474 |



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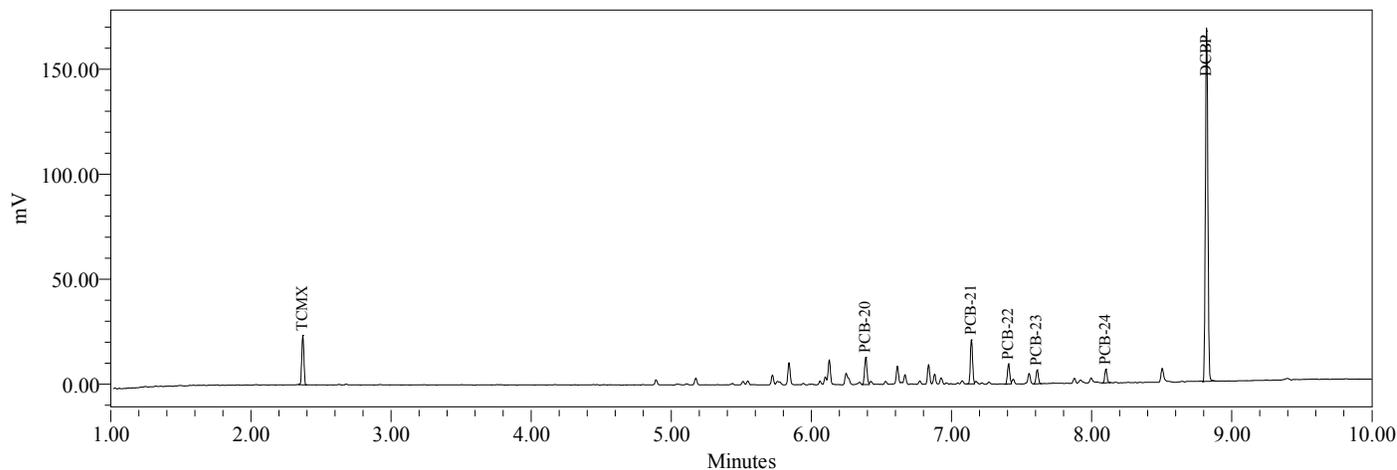
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS600604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1260 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 9:27:03 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 9:57:48 PM EDT     |
| Sample Set Name:   | GC28F_W_060415C         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:37:27 PM US/Eastern      |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-34 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | bb               | 24692         | 5.062                | 101.2       |             |
| 2 PCB-20  | 6.388          | bV               | 15938         |                      |             |             |
| 3 PCB-21  | 7.142          | bV               | 23686         |                      |             |             |
| 4 PCB-22  | 7.407          | bV               | 10696         |                      |             |             |
| 5 PCB-23  | 7.611          | bb               | 7319          |                      |             |             |
| 6 PCB-24  | 8.101          | bb               | 7204          |                      |             |             |
| 7 DCBP    | 8.821          | bb               | 200084        | 48.933               |             | 97.9        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 15938               | 14.600               | -70.80              |        |      |
| 2 A1254-17/18 | 15938               | 24.937               | -50.13              |        |      |
| 3 A1260       | 64843               | 53.051               | 6.10                | X      |      |
| 4 A1260-20    | 48905               | 56.139               | 12.28               |        |      |
| 5 A1260-23/24 | 50319               | 50.934               | 1.87                |        |      |
| 6 A1262       | 64843               | 50.670               | 1.34                |        |      |
| 7 A1268       | 14524               | 6.050                | -87.90              |        |      |



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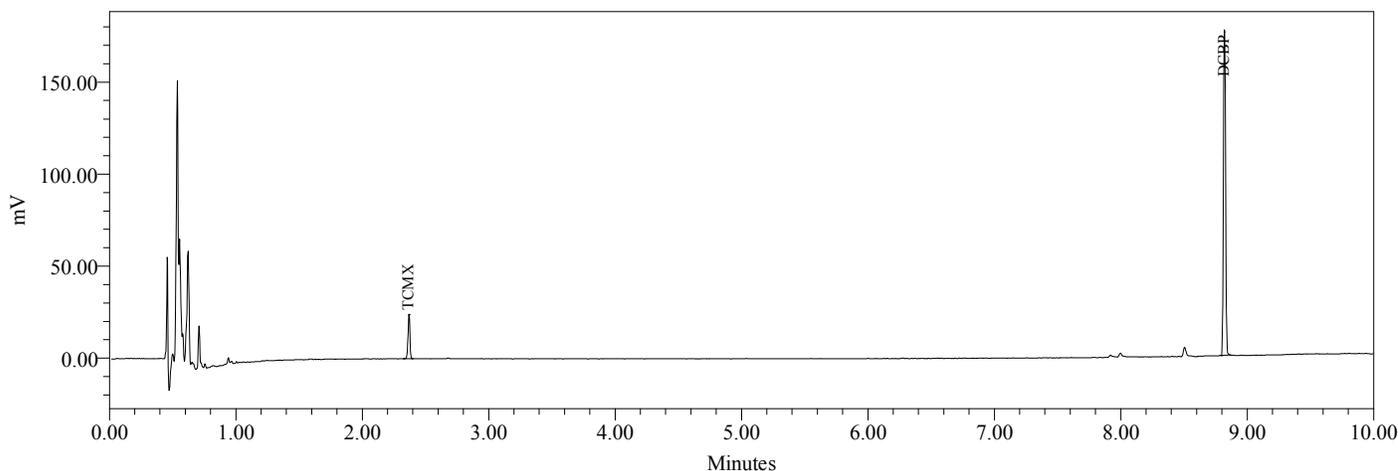
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Sample Name: 150604B12 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 9:40:38 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 9:56:32 PM EDT  
Sample Set Name: GC28F\_W\_060415C User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 10:38:02 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-35 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.370          | bb               | 25239         | 5.177                | 103.53263 |           |
| 2 DCBP    | 8.821          | bb               | 209693        | 51.447               |           | 102.89323 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060055</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-92</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11507B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-32</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/03/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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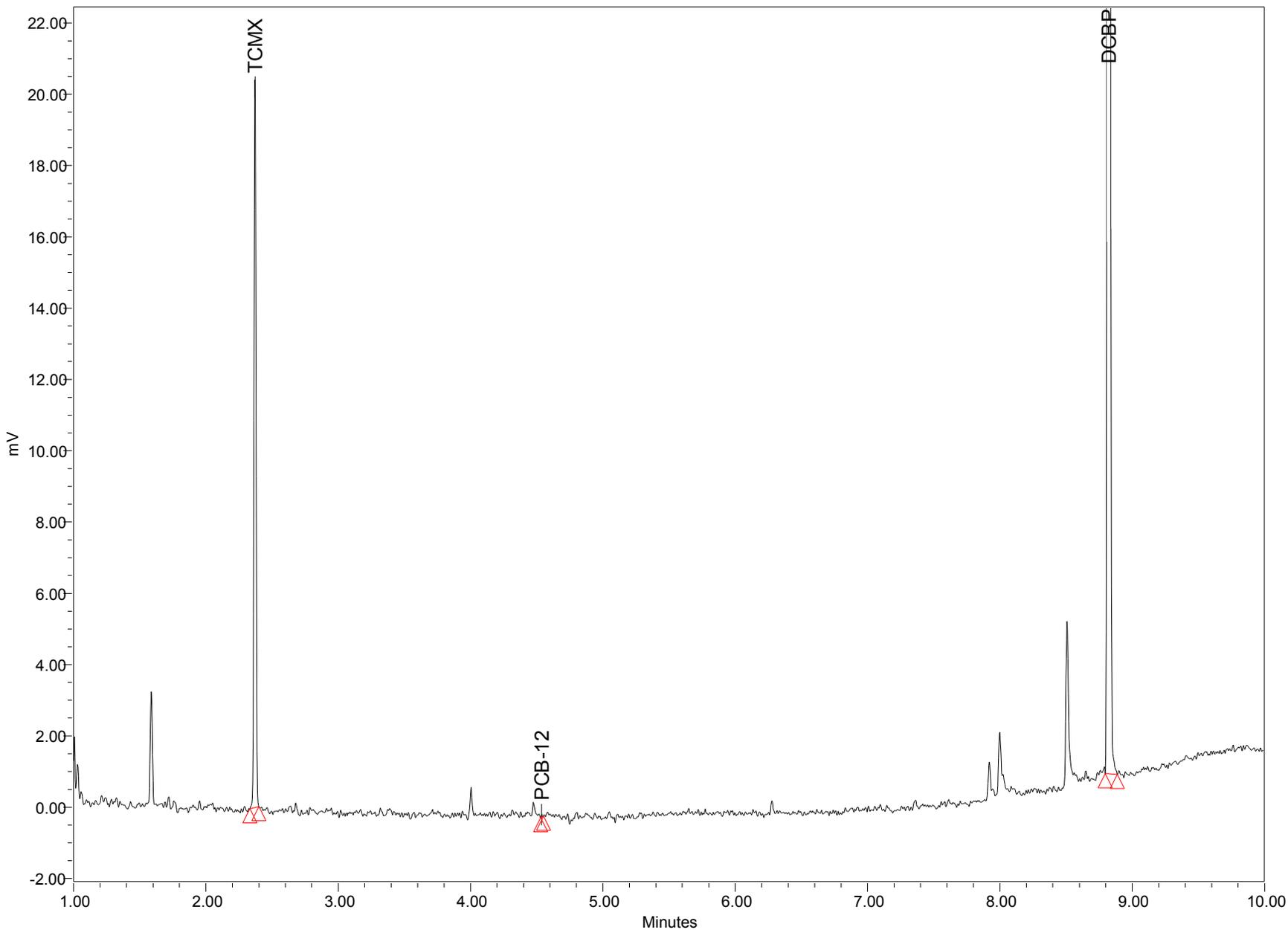
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11507B                | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                           |
| Date Acquired:     | 6/3/2015 6:30:09 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:28:52 PM EDT     |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:36:32 PM US/Eastern      |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-32 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 21565         | 4.407                | 88.1        |             |
| 2 | PCB-12    | 4.538          | bb               | 40            |                      |             |             |
| 3 | DCBP      | 8.823          | Bb               | 197927        | 48.369               |             | 96.7        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1248       | 39.8991             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 2 | A1248-11/15 | 39.8991             | 0.062                | 0.00031     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1248-14/15 | 39.8991             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11507B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060055</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-92</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11507L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-33</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/03/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.239                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

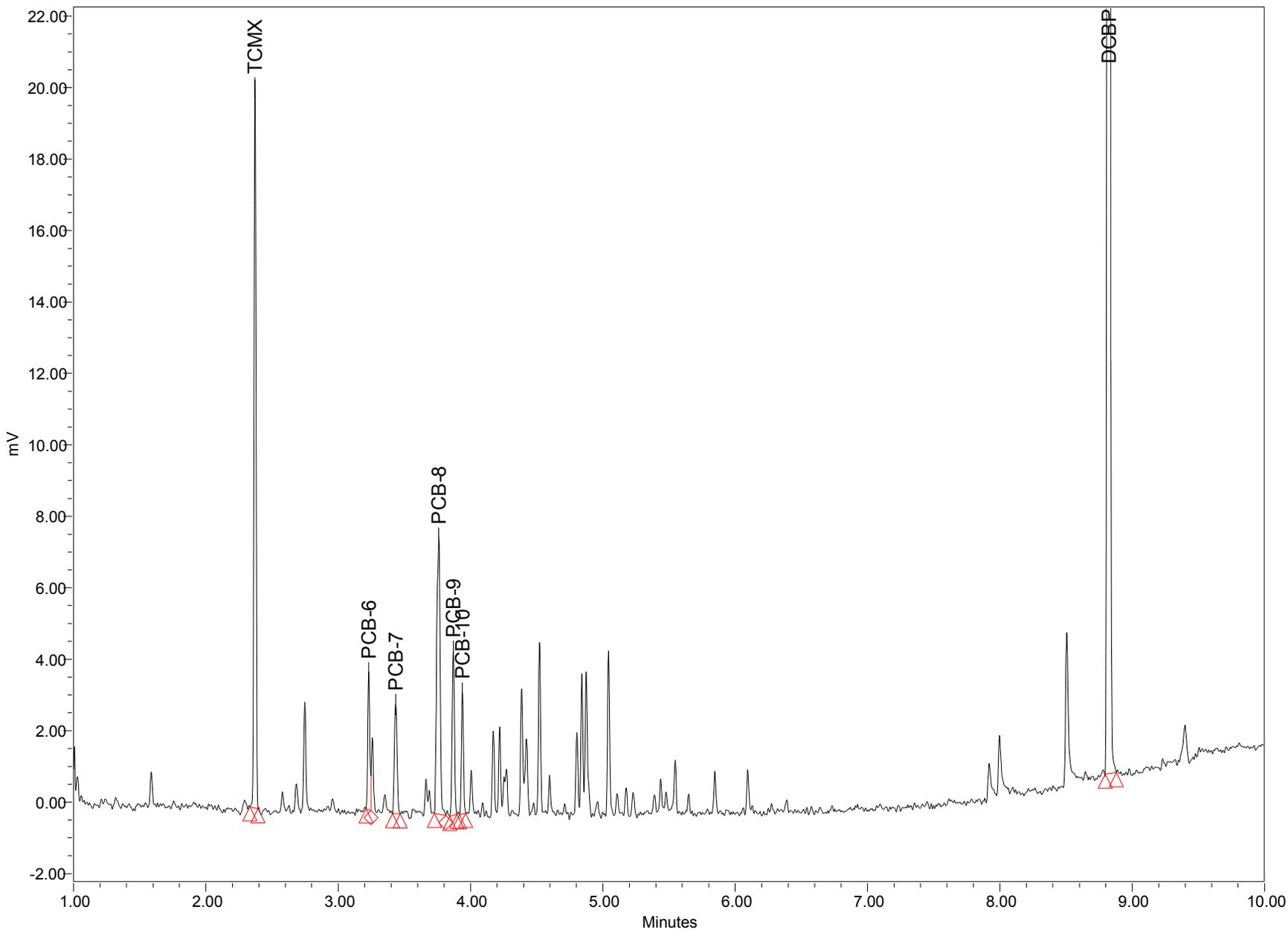
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11507L                | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                           |
| Date Acquired:     | 6/3/2015 6:43:59 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:29:20 PM EDT     |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:36:38 PM US/Eastern      |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-33 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 21479         | 4.389                | 87.8        |             |
| 2 | PCB-6     | 3.230          | BV               | 4200          |                      |             |             |
| 3 | PCB-7     | 3.434          | BB               | 4367          |                      |             |             |
| 4 | PCB-8     | 3.759          | BV               | 13819         |                      |             |             |
| 5 | PCB-9     | 3.870          | BB               | 5493          |                      |             |             |
| 6 | PCB-10    | 3.938          | BB               | 3731          |                      |             |             |
| 7 | DCBP      | 8.822          | Bb               | 200987        | 49.169               |             | 98.3        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 31610.5179          | 37.420               | 0.18710     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27410.0654          | 62.830               | 0.31415     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8098.1209           | 39.276               | 0.19638     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 31610.5179          | 47.898               | 0.23949     | 0.0250   | 0.00873  | X      |      |



SampleName AS11507L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060055

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150602083553  
**Lab Sample ID:** 15060055-01 (AS11504)

**Collection Date:** 06/02/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/03/2015 12:15  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1633-10 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 14:02 | KTC     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30928         | EPA 3535A                           | 06/03/2015 14:50 | KEN     | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0255 | 1.00            | U     | GC28F-1633-10 |
| Aroclor 1221          | 11104-28-2 | <b>0.0704</b> | 0.0255 | 1.00            | PB    | GC28F-1633-10 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1633-10 |
| Aroclor 1242          | 53469-21-9 | <b>0.0308</b> | 0.0255 | 1.00            | AD    | GC28F-1633-10 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0255 | 1.00            | U     | GC28F-1633-10 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0255 | 1.00            | U     | GC28F-1633-10 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0255 | 1.00            | U     | GC28F-1633-10 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1012</b> |        | 1.00            |       | GC28F-1633-10 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 93.8       | 70.0-130   |                | GC28F-1633-10 |
| Decachlorobiphenyl      | 2051-24-3 | 85.6       | 70.0-130   |                | GC28F-1633-10 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060055

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150602083826  
**Lab Sample ID:** 15060055-02 (AS11505)

**Collection Date:** 06/02/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/03/2015 12:15  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1633-32 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 20:59 | KTC     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30928         | EPA 3535A                           | 06/03/2015 14:50 | KEN     | 960 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-32 |
| Aroclor 1221          | 11104-28-2 | <b>0.164</b>  | 0.0260 | 1.00            | PB    | GC28F-1633-32 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-32 |
| Aroclor 1242          | 53469-21-9 | <b>0.0164</b> | 0.0260 | 1.00            | AD,J  | GC28F-1633-32 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-32 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-32 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-32 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1804</b> |        | 1.00            |       | GC28F-1633-32 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 89.4       | 70.0-130   |                | GC28F-1633-32 |
| Decachlorobiphenyl      | 2051-24-3 | 76.7       | 70.0-130   |                | GC28F-1633-32 |

<sup>1</sup>Qualifier column where "R" denotes value outside the control limits or "D" denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060055

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150602083654  
**Lab Sample ID:** 15060055-03 (AS11506)

**Collection Date:** 06/02/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/03/2015 12:15  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1633-33 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 21:13 | KTC     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30928             | EPA 3535A                           | 06/03/2015 14:50 | KEN     | 940 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0266 | 1.00            | U     | GC28F-1633-33 |
| Aroclor 1221          | 11104-28-2 | <b>0.0306</b> | 0.0266 | 1.00            | PB    | GC28F-1633-33 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0266 | 1.00            | U     | GC28F-1633-33 |
| Aroclor 1242          | 53469-21-9 | <b>0.0108</b> | 0.0266 | 1.00            | AD,J  | GC28F-1633-33 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0266 | 1.00            | U     | GC28F-1633-33 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0266 | 1.00            | U     | GC28F-1633-33 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0266 | 1.00            | U     | GC28F-1633-33 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0414</b> |        | 1.00            |       | GC28F-1633-33 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 90.9       | 70.0-130   |                | GC28F-1633-33 |
| Decachlorobiphenyl      | 2051-24-3 | 79.1       | 70.0-130   |                | GC28F-1633-33 |

<sup>1</sup>Qualifier column where "R" denotes value outside the control limits or "D" denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2110 Date In Oven: 06/03/2015 Temp: 103.3 degree C Analyst: Daniel Dodaro

**Finish:** STD Lot # 060115B9P11 Date Out Oven: 06/03/2015 Temp: 103.3 degree C Analyst: Daniel Dodaro

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29151   | BLANK-66       | AS11504B      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRX        | 1000             | 0.1100         | 0.1106       | 0.6               |                    |       |      |          |
| 29150   | LCS-66         | AS11504L      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRY        | 250              | 0.1167         | 0.1414       | 98.8              | 100                | 98.8  |      |          |
| 29144   | 15060055-01    | AS11504       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRZ        | 1060             | 0.1167         | 0.1196       | 2.74              |                    |       |      |          |
| 29145   | 15060055-02    | AS11505       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS0        | 1040             | 0.1165         | 0.1185       | 1.92              |                    |       |      |          |
| 29146   | 15060055-03    | AS11506       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS1        | 960              | 0.1130         | 0.1155       | 2.6               |                    |       |      |          |
| 29147   | 15060056-01    | AS11507       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS2        | 870              | 0.1126         | 0.1320       | 22.3              |                    |       |      |          |
| 29149   | 15060056-01DUP | AS11507D      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS3        | 860              | 0.1118         | 0.1307       | 22                |                    |       | 1.46 |          |
| 29148   | 15060056-02    | AS11508       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS4        | 740              | 0.1122         | 0.1414       | 39.5              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review:   
 Daniel Dodaro

Peer Review:   
 Jeanne Shoulder

PrintDate: 6/9/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060055

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/02/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150602083553 | <b>Received Date:</b> 06/03/2015 12:15   |
| <b>Lab Sample ID:</b> 15060055-01 (AS11504)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2110 | SM 2540D | 06/03/2015 21:22 | DSD     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.74          | 0.943 | 0.94            |       | 2110    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060055

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/02/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150602083826 | <b>Received Date:</b> 06/03/2015 12:15   |
| <b>Lab Sample ID:</b> 15060055-02 (AS11505)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2110 | SM 2540D | 06/03/2015 21:22 | DSD     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.92          | 0.962 | 0.96            |       | 2110    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060055

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/02/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-187.70-T150602083654 | <b>Received Date:</b> 06/03/2015 12:15   |
| <b>Lab Sample ID:</b> 15060055-03 (AS11506)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2110 | SM 2540D | 06/03/2015 21:22 | DSD     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.60          | 1.04 | 1.04            |       | 2110    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 03, 2015

**Lab Report ID:** 15060056

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 04, 2015

CASE NARRATIVE

This data package (SDG ID: 15060056) consists of 2 water samples received on 6/3/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS11507              | FRS-LOC5-T150603081650 | 6/3/2015 06:00         |
| AS11508              | FRS-WAFA-T150603081740 | 6/3/2015 06:00         |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/3/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue, Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150603102707PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID        | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|------------------------|-------|-----------|----------------|----------------|--------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | FRS-LOC5-T150603081650 | ENV   | W         | 06/03/2015     | 06:00          | W      | 4            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | Y                      | 24           | 4degC |
|                   |                        |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |
| 002               | FRS-WAFA-T150603081740 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 24           | 4degC |
|                   |                        |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |

AS11507

AS11508

3

|  |              |              |              |                  |            |              |            |
|--|--------------|--------------|--------------|------------------|------------|--------------|------------|
| Comments: Temp: 3.0, 3.0 COC seal: (P) |              |              |              |                  |            |              |            |
| Relinquished by:                       |              | Received by: |              | Relinquished by: |            | Received by: |            |
| Signature                              | Signature    | Signature    | Signature    | Signature        | Signature  | Signature    | Signature  |
| Print Name                             | Print Name   | Print Name   | Print Name   | Print Name       | Print Name | Print Name   | Print Name |
| Company                                | Company      | Company      | Company      | Company          | Company    | Company      | Company    |
| Date/Time                              | Date/Time    | Date/Time    | Date/Time    | Date/Time        | Date/Time  | Date/Time    | Date/Time  |
| AS11507                                | E. Broker    | E. Broker    | E. Broker    | Austin M...      |            |              |            |
| Anchor QEA                             | PACE         | PACE         | PACE         | PACE             |            |              |            |
| 6/3/15 10:40                           | 6/3/15 11:40 | 6/3/15 12:15 | 6/3/15 12:15 | 6/3/15 12:15     |            |              |            |

Date Printed: 6/3/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



CLIENT NAME: GE  
 PROJECT: HR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # NA CUSTODY SEAL PRESENT: Yes  No   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other   
 THERMOMETER USED: #164  IR Gun 03  #122087967   
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

INTACT: Yes  No  N/A   
 ICE USED: Wet  Blue  None   
 COOLER TEMPERATURE (°C): 3.0, 3.0  
 Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |
|--|---|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>24 hr</u>                         |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |
| - Includes date/time/ID/Analysis   |   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| - Exceptions that are not checked: VOA   |   |  |   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Pace Trip Blank Lot #: <u>NA</u>   |   |  |   |
| Initial when completed: <u>NA</u>  |   |  | Lot # of added preservative: <u>NA</u>  |

Sample Receipt form filled in: ADM 6/3/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS):  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

ADM 6/3/15  
ADM 6/3/15  
ADM 6/3/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060056

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060056  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/03/2015 12:15  
**SHIPPED VIA:** PICK UP <sup>1</sup>  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 2  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0, 3.0 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
<sup>3</sup> **SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150603081650 (AS11507) | *24 HOUR* 06-04-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-04-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150603081740 (AS11508) | *24 HOUR* 06-04-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-04-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/03/15

Batch ID: 30928

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307395        | PBLK-92       | AS11507B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 2       | 307394        | LCS-92        | AS11507L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 3       | 307389        | 15060056-01   | AS11507  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 960                 | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 4       | 307390        | 15060056-02   | AS11508  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1080                | NA                   | NA                  | NA                   | NA                                  | 06/03                    | NA                          | 06/03                 | 06/03               | 5                 | 06/03    |  |
| 5       | 307391        | 15060055-01   | AS11504  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 980                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 6       | 307392        | 15060055-02   | AS11505  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 960                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 7       | 307393        | 15060055-03   | AS11506  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 940                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000091077          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar) CURRENT              | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaal*

Elizabeth Ramkirpaal

Print Date: 6/4/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

LRF: 15060056

Batch ID: 30928

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11507B      | GC28F-1632-32 | Water  | 06/03/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11507L      | GC28F-1632-33 | Water  | 06/03/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11507       | GC28F-1632-34 | Water  | 06/03/15  | 960                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11508       | GC28F-1632-35 | Water  | 06/03/15  | 1080                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060056

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID      | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|-------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-92     | AS11507B      | GC28F-1632-32 | 88.1                   | 96.7                   |           |           | 0         |
| LCS-92      | AS11507L      | GC28F-1632-33 | 87.8                   | 98.3                   |           |           | 0         |
| 15060056-01 | AS11507       | GC28F-1632-34 | 92.1                   | 85.5                   |           |           | 0         |
| 15060056-02 | AS11508       | GC28F-1632-35 | 97.7                   | 86.8                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060056</u>                           |
| LCS Lab ID: <u>LCS-92</u>                | Blank Sample ID: <u>PBLK-92</u>                   |
| LCS File ID: <u>GC28F-1632-33</u>        | Method Blank File ID: <u>GC28F-1632-32</u>        |
| LCS Inj Date: <u>06/03/2015 18:43:59</u> | Method Blank Inj Date: <u>06/03/2015 18:30:09</u> |
| LCS ID: <u>AS11507L</u>                  | Method Blank ID: <u>AS11507B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT<br>RECOVERY |
|--------------|--------------------------|--------------------------------|------------------------------|---|
| Aroclor 1242 | 0.250                    | 0.239                          | 95.8                         | 70.0-130                                      |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060056</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-92</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11507B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1632-32</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/03/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/03/2015</u>  |
|  | Time Analyzed: <u>18:30:09</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-92(LAB CONTROL SPIKE) | AS11507L         | GC28F-1632-33  | 06/03/2015 18:43:59     |
| FRS-LOC5-T150603081650    | AS11507          | GC28F-1632-34  | 06/03/2015 18:57:36     |
| FRS-WAFA-T150603081740    | AS11508          | GC28F-1632-35  | 06/03/2015 19:11:46     |

# SAMPLE ANALYSIS DATA

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060056</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060056-01</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-LOC5-T150603081650</u> |
| Sample wt(Dry)/vol:   | <u>960 mL</u>   | Lab Sample ID:   | <u>AS11507</u>                |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-34</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/03/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/03/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0260                | U    |
| 11104-28-2 | Aroclor 1221  | 0.132                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0260                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0393                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0260                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0159                | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0260                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11507                 | Sample Amount (L) : | 0.9600                  |
| Sample ID:         | FRS-LOC5-T150603081650  | Dilution:           | 5                       |
| Date Acquired:     | 6/3/2015 6:57:36 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:30:55 PM EDT |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 7:39:10 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-34 [m]       |

**Peak Results**

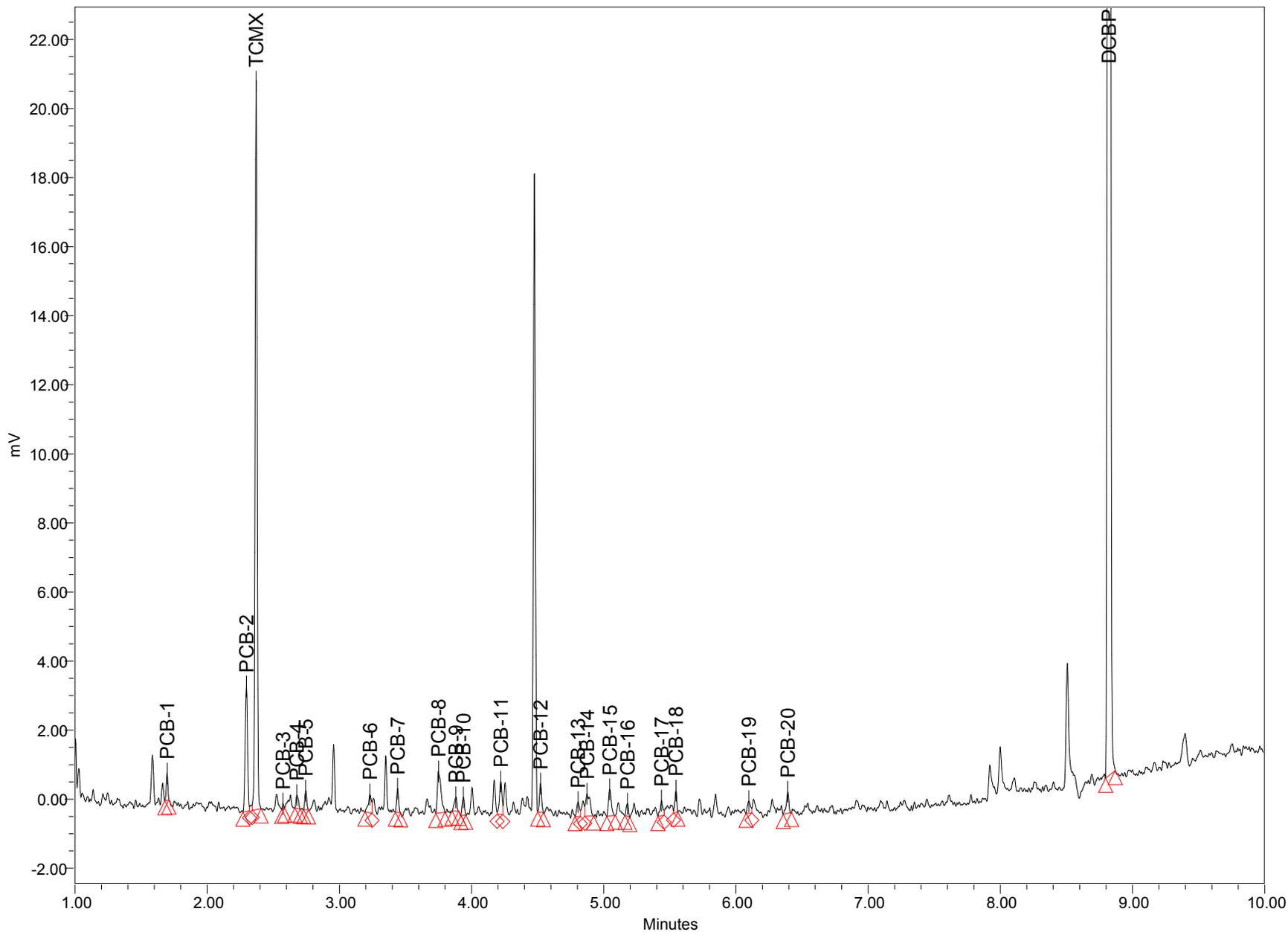
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.696          | bb               | 644           |                      |             |             |
| 2  | PCB-2     | 2.296          | bV               | 4584          |                      |             |             |
| 3  | TCMX      | 2.370          | vb               | 22508         | 4.605                | 92.1        |             |
| 4  | PCB-3     | 2.574          | bb               | 101           |                      |             |             |
| 5  | PCB-4     | 2.679          | bb               | 485           |                      |             |             |
| 6  | PCB-5     | 2.745          | bb               | 538           |                      |             |             |
| 7  | PCB-6     | 3.231          | bV               | 883           |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 724           |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 2295          |                      |             |             |
| 10 | PCB-9     | 3.881          | bb               | 548           |                      |             |             |
| 11 | PCB-10    | 3.938          | bb               | 624           |                      |             |             |
| 12 | PCB-11    | 4.221          | VV               | 1275          |                      |             |             |
| 13 | PCB-12    | 4.522          | bb               | 905           |                      |             |             |
| 14 | PCB-13    | 4.806          | bV               | 594           |                      |             |             |
| 15 | PCB-14    | 4.874          | Vb               | 1465          |                      |             |             |
| 16 | PCB-15    | 5.045          | bb               | 1150          |                      |             |             |
| 17 | PCB-16    | 5.179          | bb               | 435           |                      |             |             |
| 18 | PCB-17    | 5.437          | bV               | 613           |                      |             |             |
| 19 | PCB-18    | 5.546          | Vb               | 634           |                      |             |             |
| 20 | PCB-19    | 6.098          | bV               | 570           |                      |             |             |
| 21 | PCB-20    | 6.391          | bb               | 843           |                      |             |             |
| 22 | DCBP      | 8.822          | bb               | 176465        | 42.754               |             | 85.5        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 5074.3969           | 5.856                | 0.03050     | 0.0260   | 0.00910  | NR     |      |
| 2 | A1221      | 6352.9108           | 25.308               | 0.13182     | 0.0260   | 0.00910  | X      | PB   |
| 3 | A1221-2    | 1769.0023           | 8.011                | 0.04172     | 0.0260   | 0.00910  | NR     |      |
| 4 | A1221-5    | 5814.5813           | 46.502               | 0.24220     | 0.0260   | 0.00910  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 4730.1022           | 10.834              | 0.05643     | 0.0260   | 0.00910  | NR     |      |
| 6  | A1232-8/9   | 1886.5291           | 8.785               | 0.04576     | 0.0260   | 0.00910  | NR     |      |
| 7  | A1242       | 5074.3969           | 7.539               | 0.03927     | 0.0260   | 0.00910  | X      | AD   |
| 8  | A1248       | 5388.8551           | 6.772               | 0.03527     | 0.0260   | 0.00910  | NR     |      |
| 9  | A1248-11/15 | 2963.7980           | 6.146               | 0.03201     | 0.0260   | 0.00910  | NR     |      |
| 10 | A1248-14/15 | 2773.8779           | 7.466               | 0.03888     | 0.0260   | 0.00910  | NR     |      |
| 11 | A1254       | 3094.9931           | 3.053               | 0.01590     | 0.0260   | 0.00910  | X      | AF,J |
| 12 | A1254-17/18 | 1847.8891           | 3.198               | 0.01665     | 0.0260   | 0.00910  | NR     |      |
| 13 | A1254-19/20 | 1682.2993           | 2.762               | 0.01439     | 0.0260   | 0.00910  | NR     |      |
| 14 | A1254-20    | 2251.8220           | 2.954               | 0.01538     | 0.0260   | 0.00910  | NR     |      |
| 15 | A1260       | 843.1712            | 0.576               | 0.00300     | 0.0260   | 0.00910  | NR     |      |
| 16 | A1260-23/24 | 843.1712            | 1.291               | 0.00673     | 0.0260   | 0.00910  | NR     |      |
| 17 | A1262       | 843.1712            |                     |             |          |          | NR     |      |



SampleName AS11507; Sample\_ID FRS-LOC5-T150603081650



|                    |                        |                      |                     |
|--------------------|------------------------|----------------------|---------------------|
| Lab ID:            | AS11507                | Current Date Time:   | 6/4/2015 17:03:57   |
| Sample ID:         | FRS-LOC5-T150603081650 | LIMS File ID:        | GC28F-1632-34       |
| Matrix:            | Water                  | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/3/2015 6:57:36 PM    | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{6352.910755 - -16.185578}{251.658479} = 25.3085 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{25.3085 \text{ ng/mL} * 5.0 \text{ mL} * 1}{960 \text{ mL}} = 0.132 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060056</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060056-02</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150603081740</u> |
| Sample wt(Dry)/vol: <u>1080 mL</u>                                     | Lab Sample ID: <u>AS11508</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-35</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/03/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/03/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0910                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0444                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.00913               | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11508                 | Sample Amount (L) : | 1.0800                  |
| Sample ID:         | FRS-WAFA-T150603081740  | Dilution:           | 5                       |
| Date Acquired:     | 6/3/2015 7:11:46 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:32:39 PM EDT |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 7:39:11 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-35 [m]       |

**Peak Results**

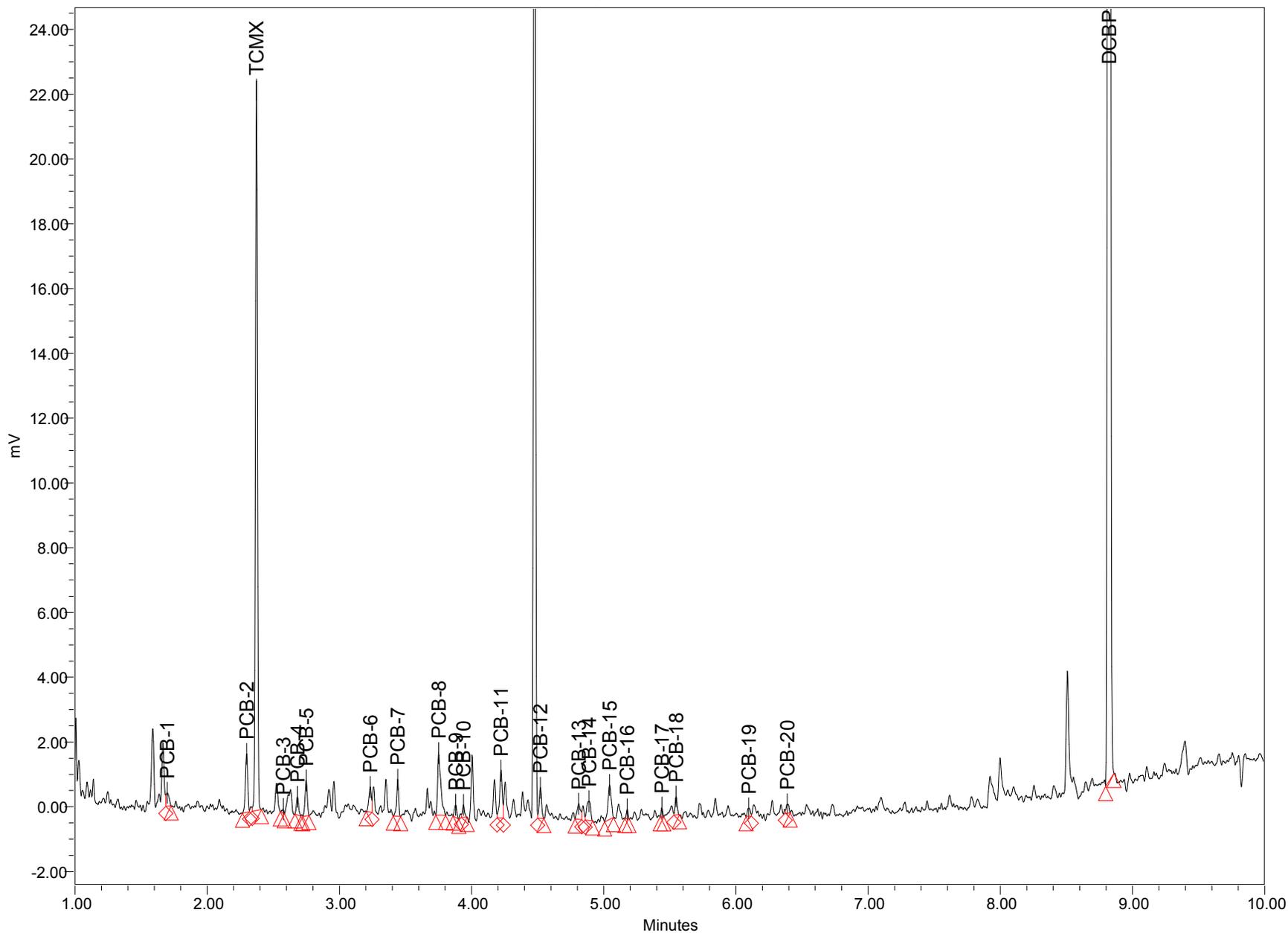
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | Vb               | 657           |                      |             |             |
| 2  | PCB-2     | 2.298          | bV               | 2229          |                      |             |             |
| 3  | TCMX      | 2.373          | Vb               | 23841         | 4.884                | 97.7        |             |
| 4  | PCB-3     | 2.575          | bb               | 116           |                      |             |             |
| 5  | PCB-4     | 2.683          | bb               | 643           |                      |             |             |
| 6  | PCB-5     | 2.749          | bb               | 1288          |                      |             |             |
| 7  | PCB-6     | 3.234          | bV               | 1022          |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 1252          |                      |             |             |
| 9  | PCB-8     | 3.751          | bb               | 3239          |                      |             |             |
| 10 | PCB-9     | 3.880          | bb               | 484           |                      |             |             |
| 11 | PCB-10    | 3.939          | Vb               | 426           |                      |             |             |
| 12 | PCB-11    | 4.223          | VV               | 2019          |                      |             |             |
| 13 | PCB-12    | 4.521          | Vb               | 1174          |                      |             |             |
| 14 | PCB-13    | 4.810          | bV               | 852           |                      |             |             |
| 15 | PCB-14    | 4.888          | Vb               | 1209          |                      |             |             |
| 16 | PCB-15    | 5.044          | bb               | 1813          |                      |             |             |
| 17 | PCB-16    | 5.177          | bb               | 248           |                      |             |             |
| 18 | PCB-17    | 5.439          | bB               | 241           |                      |             |             |
| 19 | PCB-18    | 5.547          | Vb               | 623           |                      |             |             |
| 20 | PCB-19    | 6.096          | bV               | 382           |                      |             |             |
| 21 | PCB-20    | 6.389          | Vb               | 398           |                      |             |             |
| 22 | DCBP      | 8.822          | bb               | 178877        | 43.385               |             | 86.8        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 6423.9146           | 7.461                | 0.03454     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 4932.2570           | 19.663               | 0.09103     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2703.3067           | 11.916               | 0.05517     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 3644.6223           | 29.305               | 0.13567     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 6689.4089           | 15.326              | 0.07095     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 2966.2019           | 14.085              | 0.06521     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 6423.9146           | 9.592               | 0.04441     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 7067.6600           | 9.044               | 0.04187     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 3235.6124           | 6.712               | 0.03107     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 4045.7160           | 11.039              | 0.05110     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1892.4184           | 1.972               | 0.00913     | 0.0250   | 0.00873  | X      | AF,J |
| 12 | A1254-17/18 | 1028.6106           | 1.934               | 0.00895     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 1112.2112           | 1.885               | 0.00873     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 1494.1382           | 2.069               | 0.00958     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 398.2802            | 0.212               | 0.00098     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 398.2802            | 0.845               | 0.00391     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 398.2802            |                     |             |          |          | NR     |      |



SampleName AS11508; Sample\_ID FRS-WAFA-T150603081740

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060056

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |               |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/4/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060056

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1232 50 PPB              | CS320603A   | GC28F-1632-30        | 06/03/2015 18:02:18        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150603B10   | GC28F-1632-31        | 06/03/2015 18:16:15        | 2.37                       | 8.82 |
| 58   | PBLK-92(METHOD BLANK)     | AS11507B    | GC28F-1632-32        | 06/03/2015 18:30:09        | 2.37                       | 8.82 |
| 59   | LCS-92(LAB CONTROL SPIKE) | AS11507L    | GC28F-1632-33        | 06/03/2015 18:43:59        | 2.37                       | 8.82 |
| 60   | FRS-LOC5-T150603081650    | AS11507     | GC28F-1632-34        | 06/03/2015 18:57:36        | 2.37                       | 8.82 |
| 61   | FRS-WAFA-T150603081740    | AS11508     | GC28F-1632-35        | 06/03/2015 19:11:46        | 2.37                       | 8.82 |
| 62   | ZZZZZ                     | ZZZZZ       | GC28F-1632-36        | 06/03/2015 19:25:46        | 2.37                       | 8.82 |
| 63   | ZZZZZ                     | ZZZZZ       | GC28F-1632-37        | 06/03/2015 19:39:37        | 2.37                       | 8.82 |
| 64   | ZZZZZ                     | ZZZZZ       | GC28F-1632-38        | 06/03/2015 19:53:35        | 2.37                       | 8.82 |
| 65   | ZZZZZ                     | ZZZZZ       | GC28F-1632-39        | 06/03/2015 20:07:32        | 2.37                       | 8.82 |
| 66   | ZZZZZ                     | ZZZZZ       | GC28F-1632-40        | 06/03/2015 20:21:22        | 2.37                       | 8.82 |
| 67   | A1242 50 PPB              | CS420603A   | GC28F-1632-41        | 06/03/2015 20:35:14        | 2.37                       | 8.82 |
| 68   | HEXANE BLANK-SURR         | 150603B12   | GC28F-1632-42        | 06/03/2015 20:48:49        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/4/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060056

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/4/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060056

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table  
Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

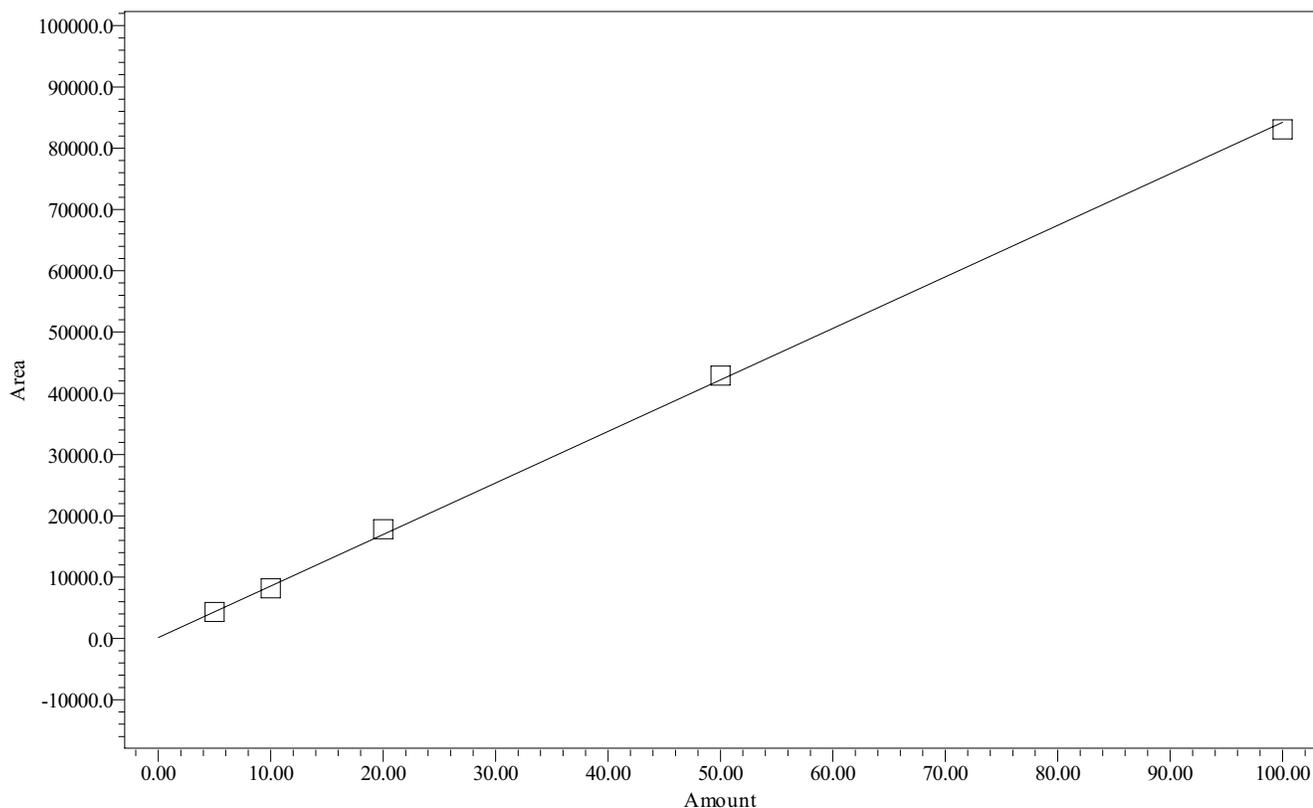
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1016                    | Coefficient constant A:           | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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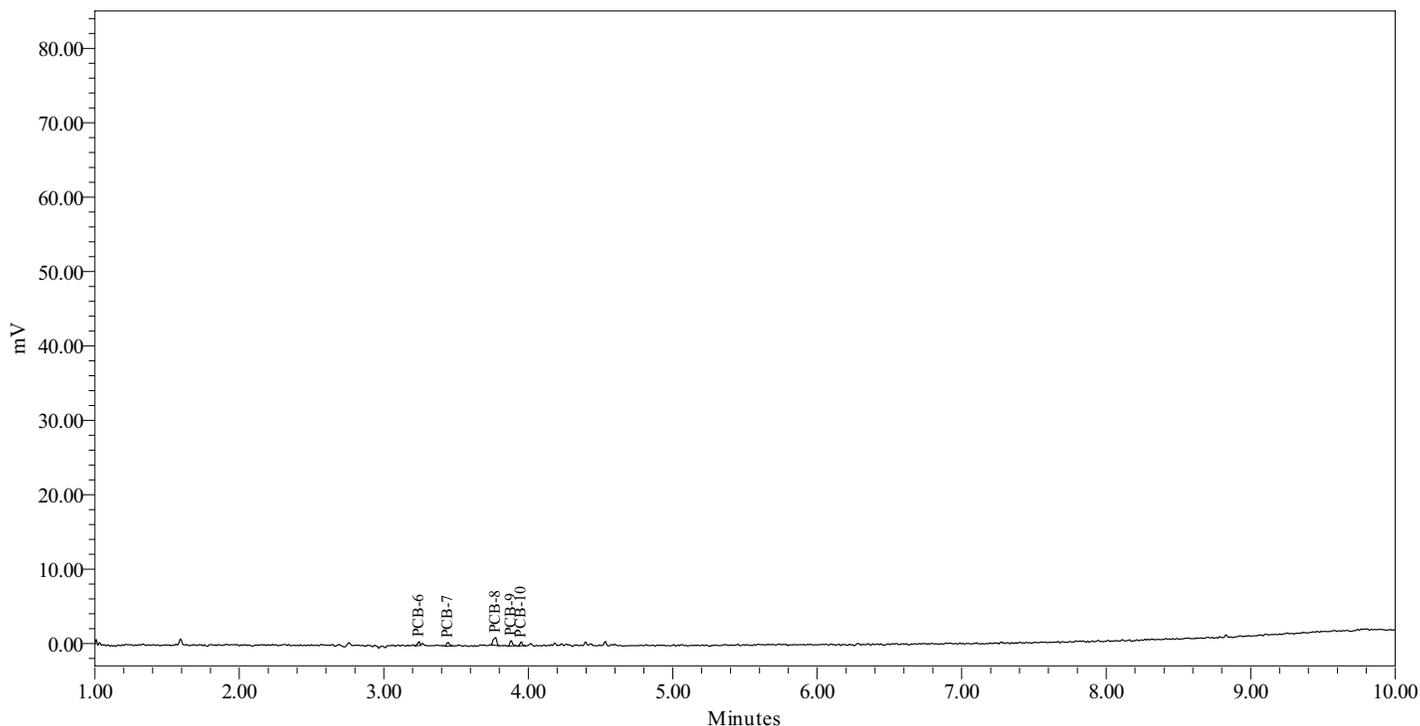
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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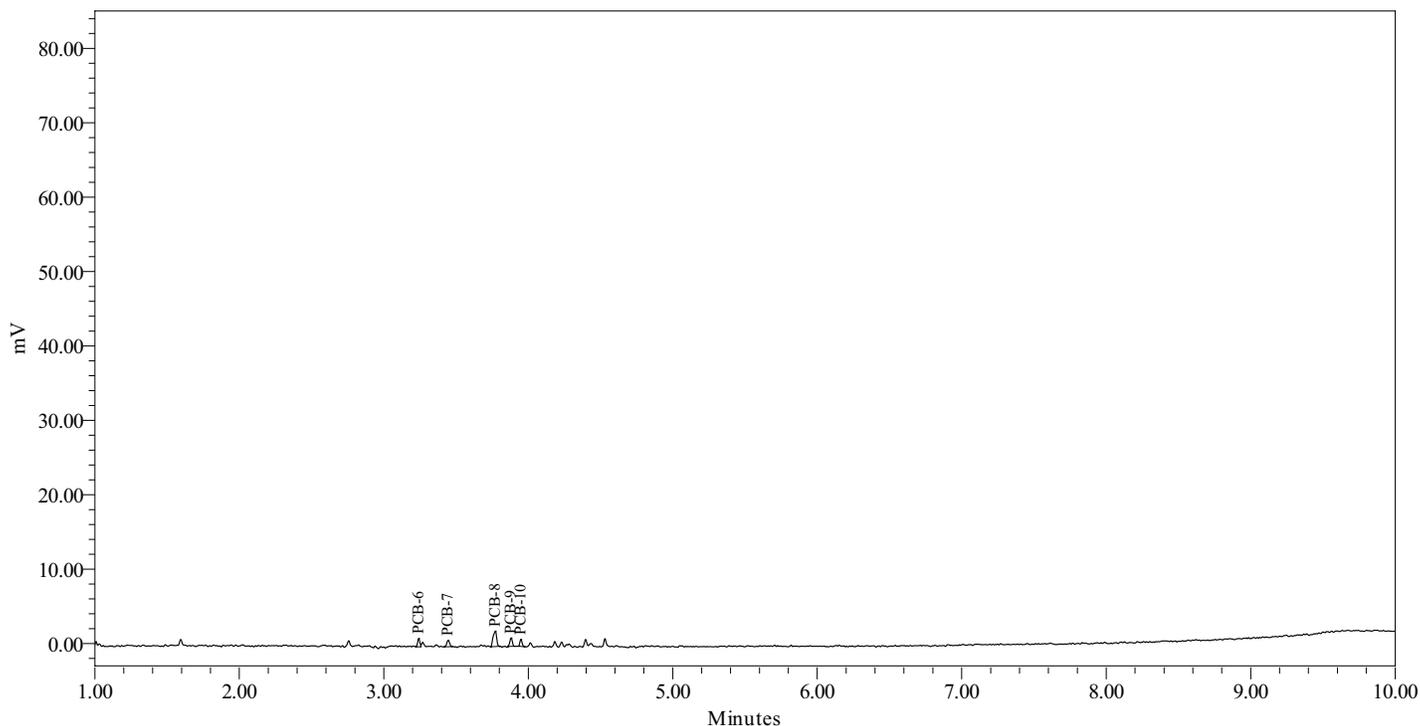
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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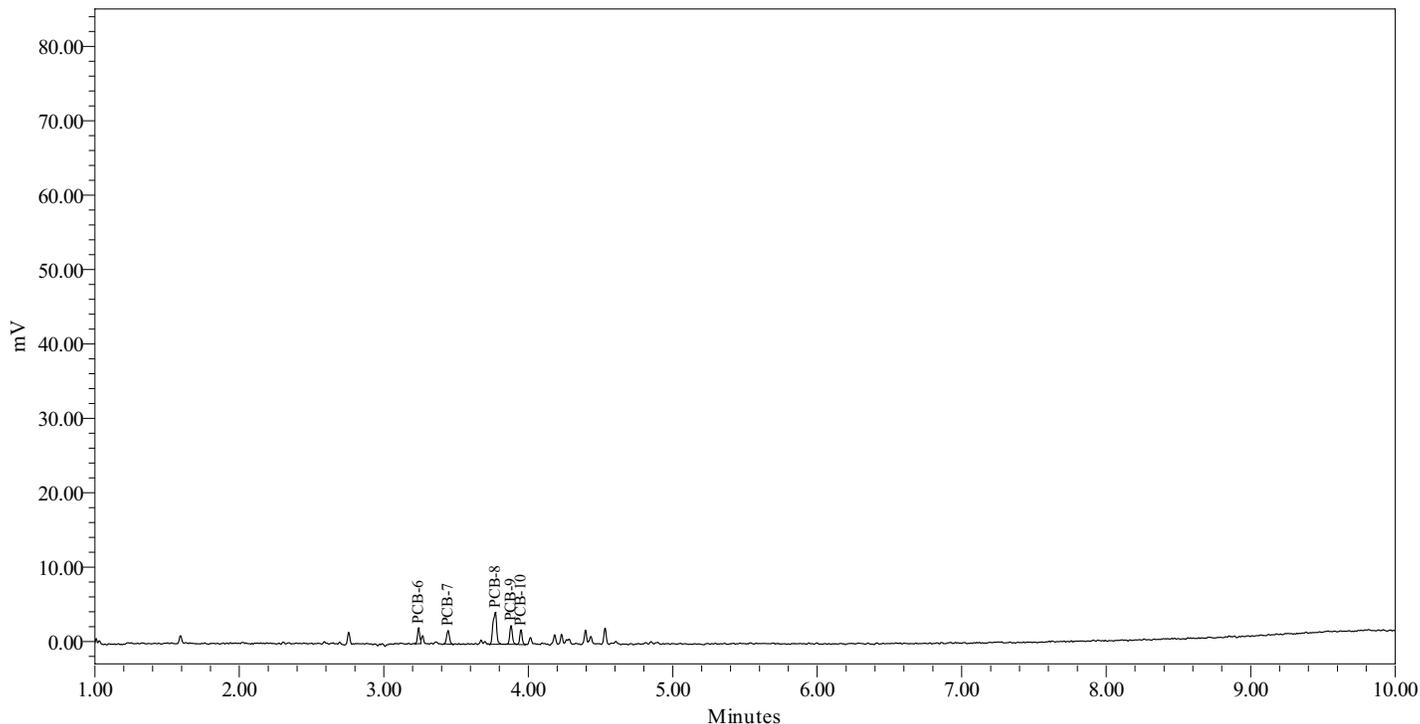
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 2349          |
| 2 | PCB-7     | 3.444          | bb               | 2467          |
| 3 | PCB-8     | 3.771          | bb               | 7692          |
| 4 | PCB-9     | 3.880          | bV               | 3110          |
| 5 | PCB-10    | 3.949          | Vb               | 2214          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 17832               | 20.000               |
| 2 | A1232      | 15483               |                      |
| 3 | A1232-8/9  | 4681                |                      |
| 4 | A1242      | 17832               |                      |



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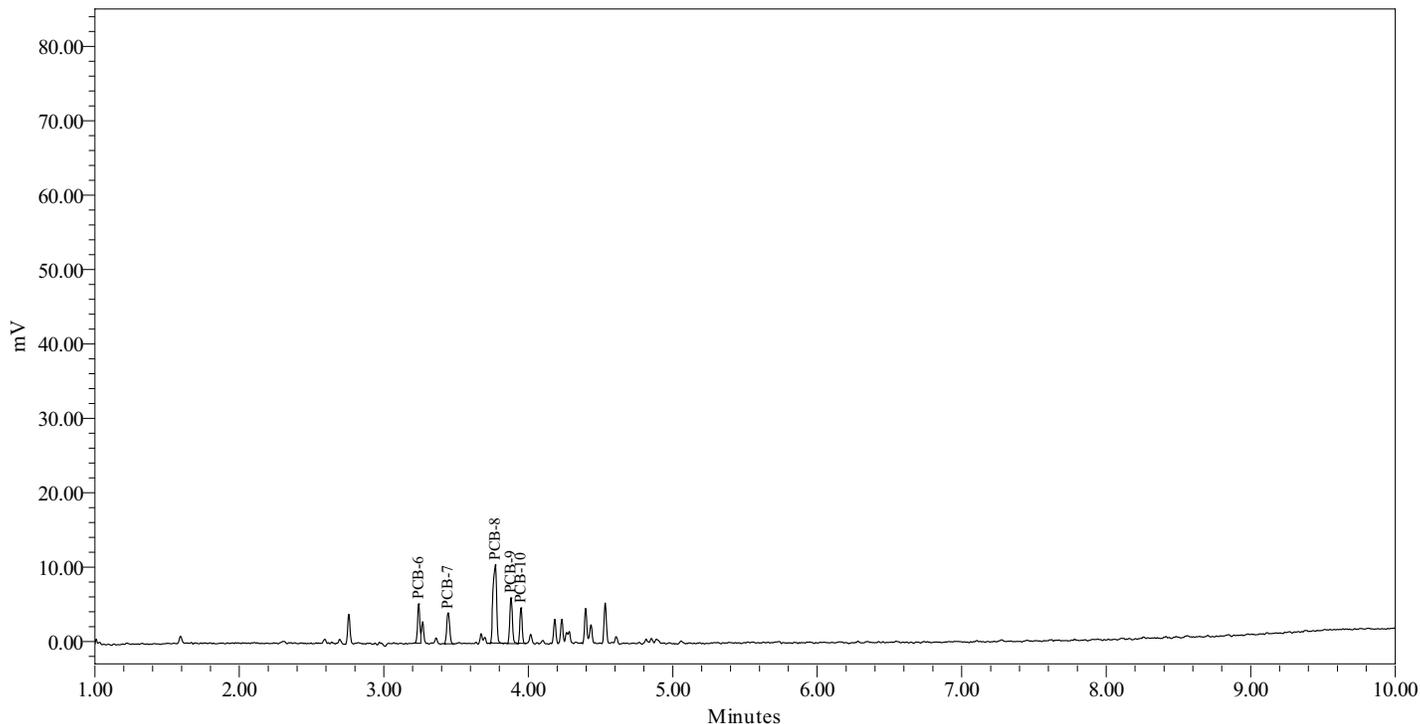
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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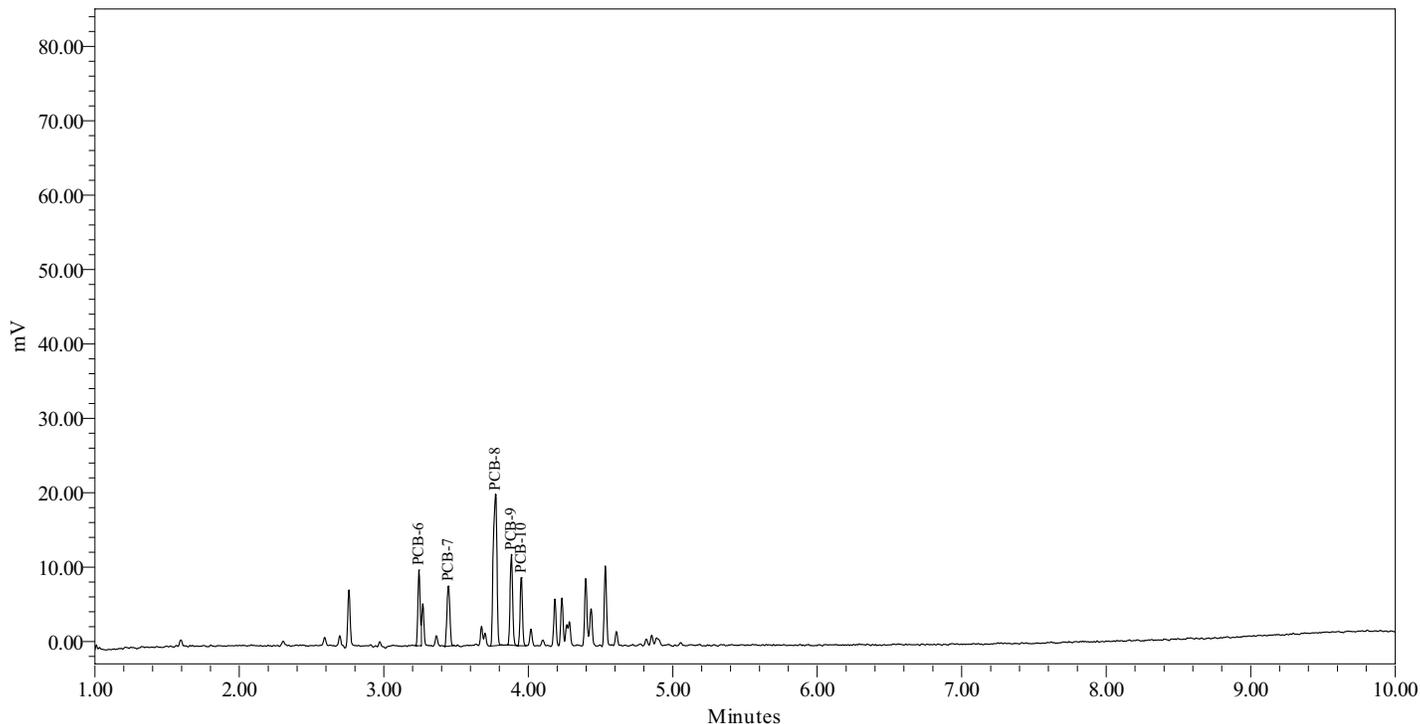
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

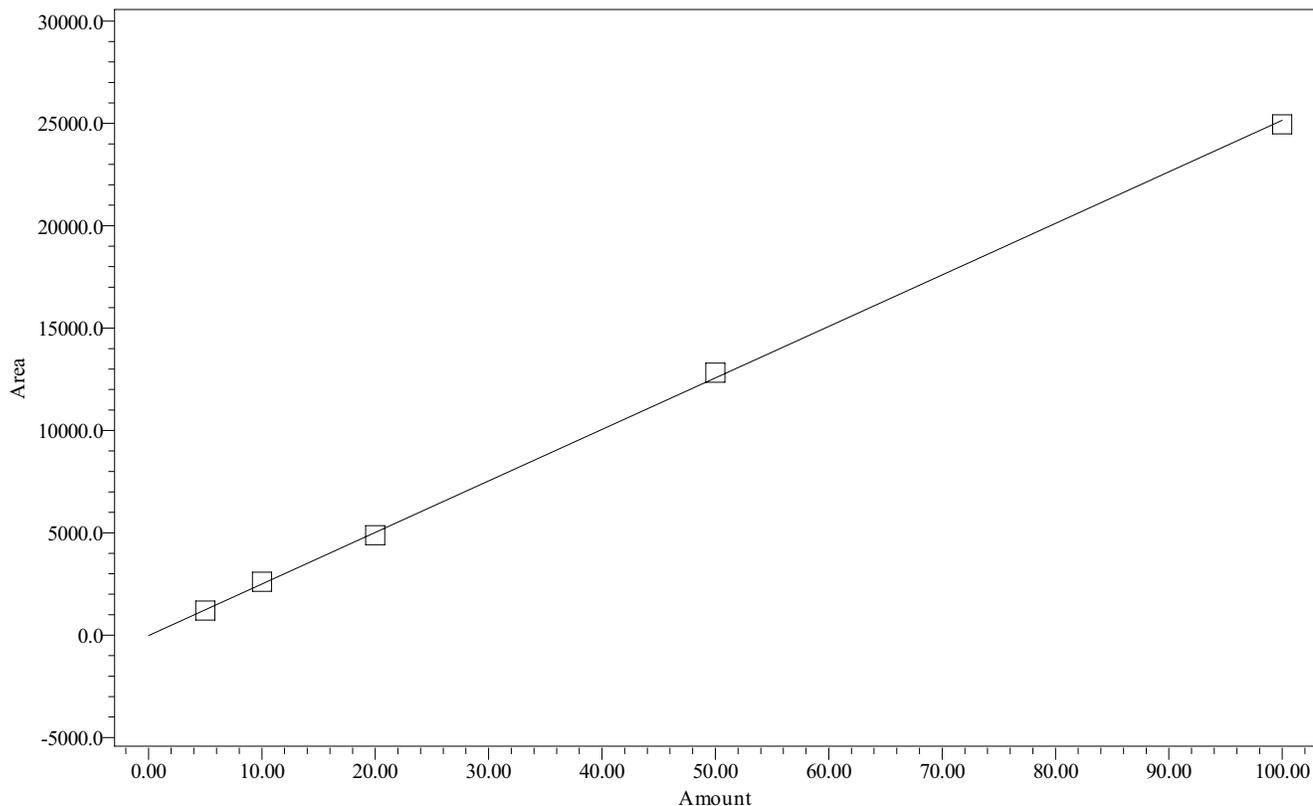
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

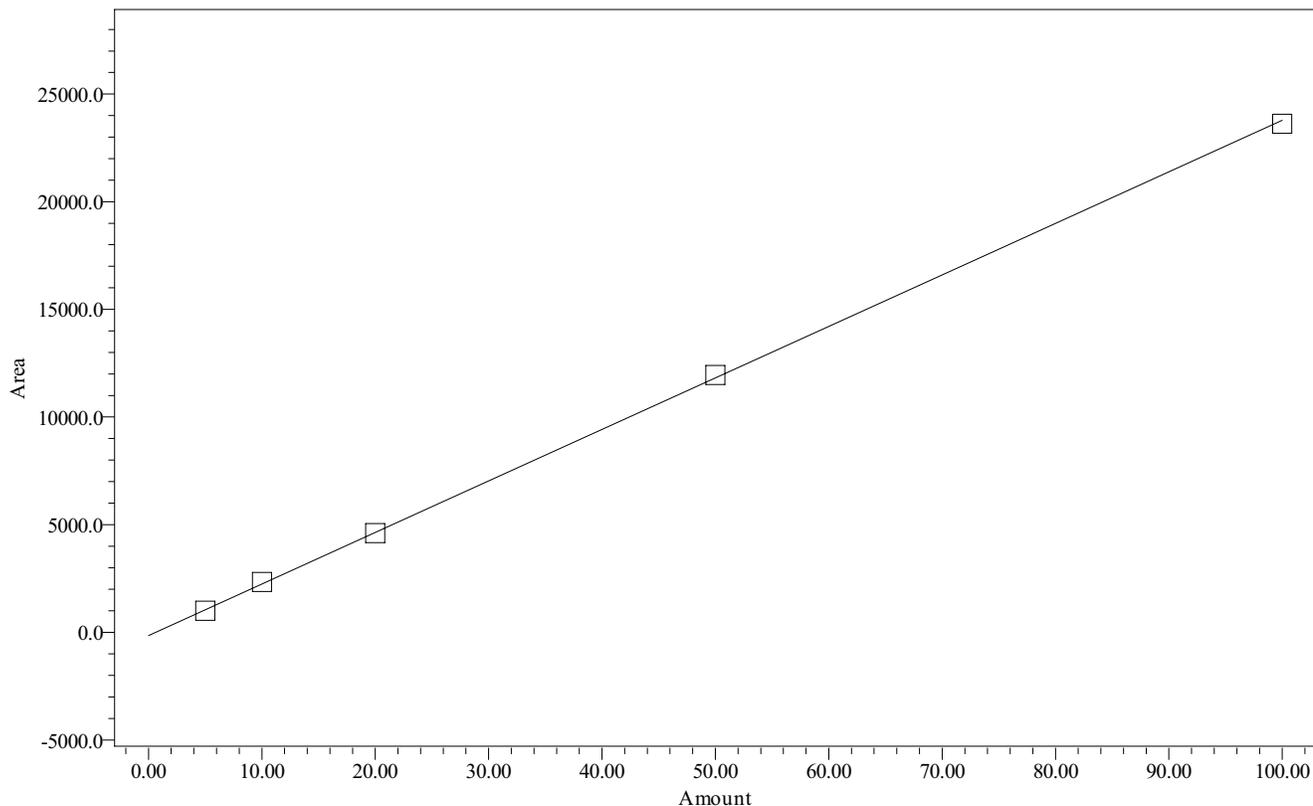
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



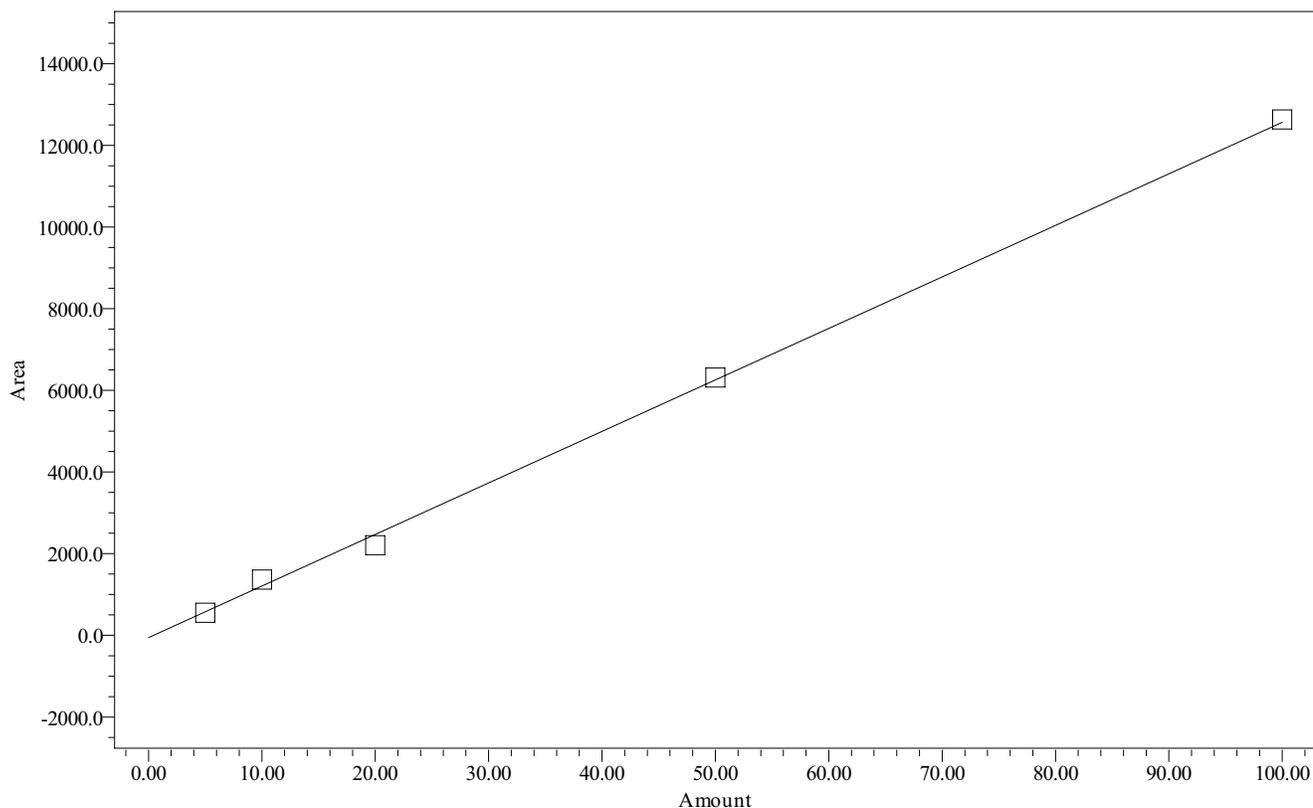
Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221-5                  | Coefficient constant A:                       | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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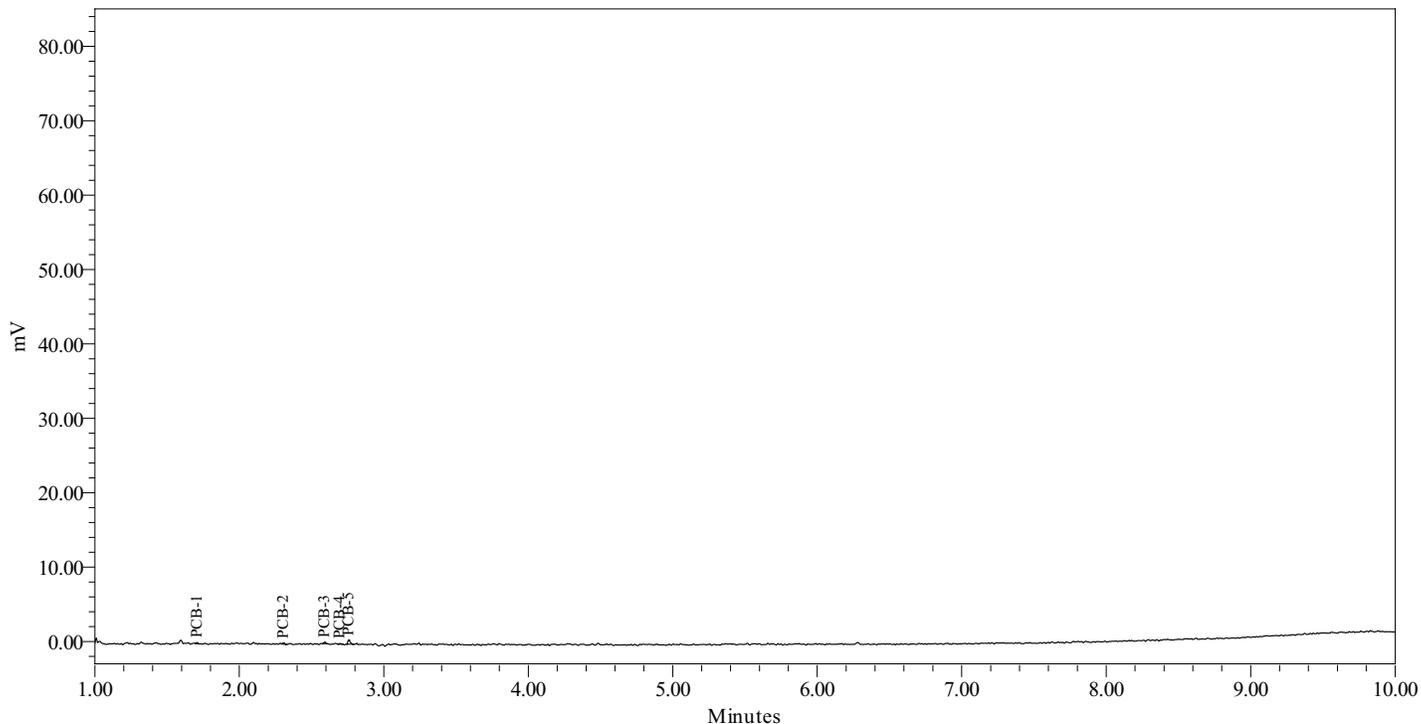
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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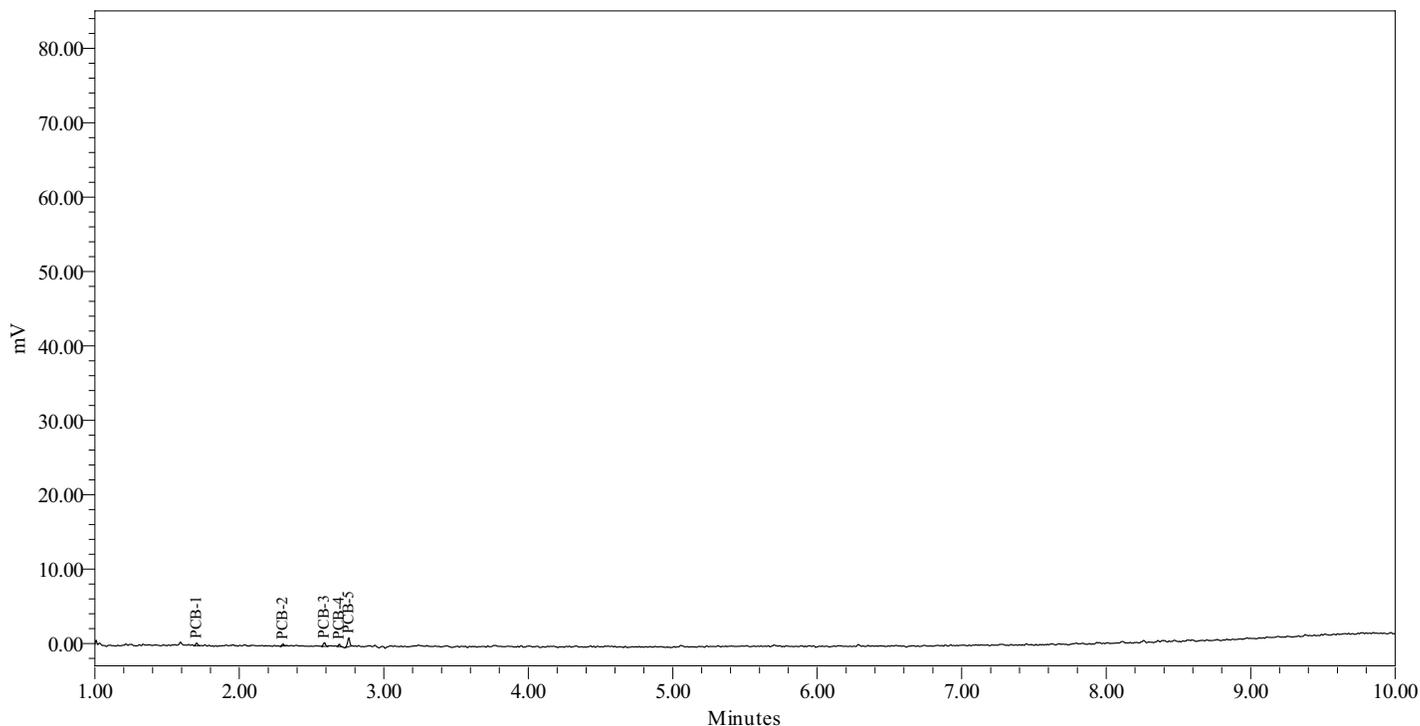
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.703          | bb               | 323           |
| 2 | PCB-2     | 2.301          | bb               | 272           |
| 3 | PCB-3     | 2.588          | bb               | 517           |
| 4 | PCB-4     | 2.691          | bb               | 256           |
| 5 | PCB-5     | 2.757          | bb               | 1247          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1221      | 2615                | 10.000               |
| 2 | A1221-2    | 2343                | 10.000               |
| 3 | A1221-5    | 1368                | 10.000               |
| 4 | A1232      | 1247                |                      |
| 5 | A1232-8/9  | 1247                |                      |



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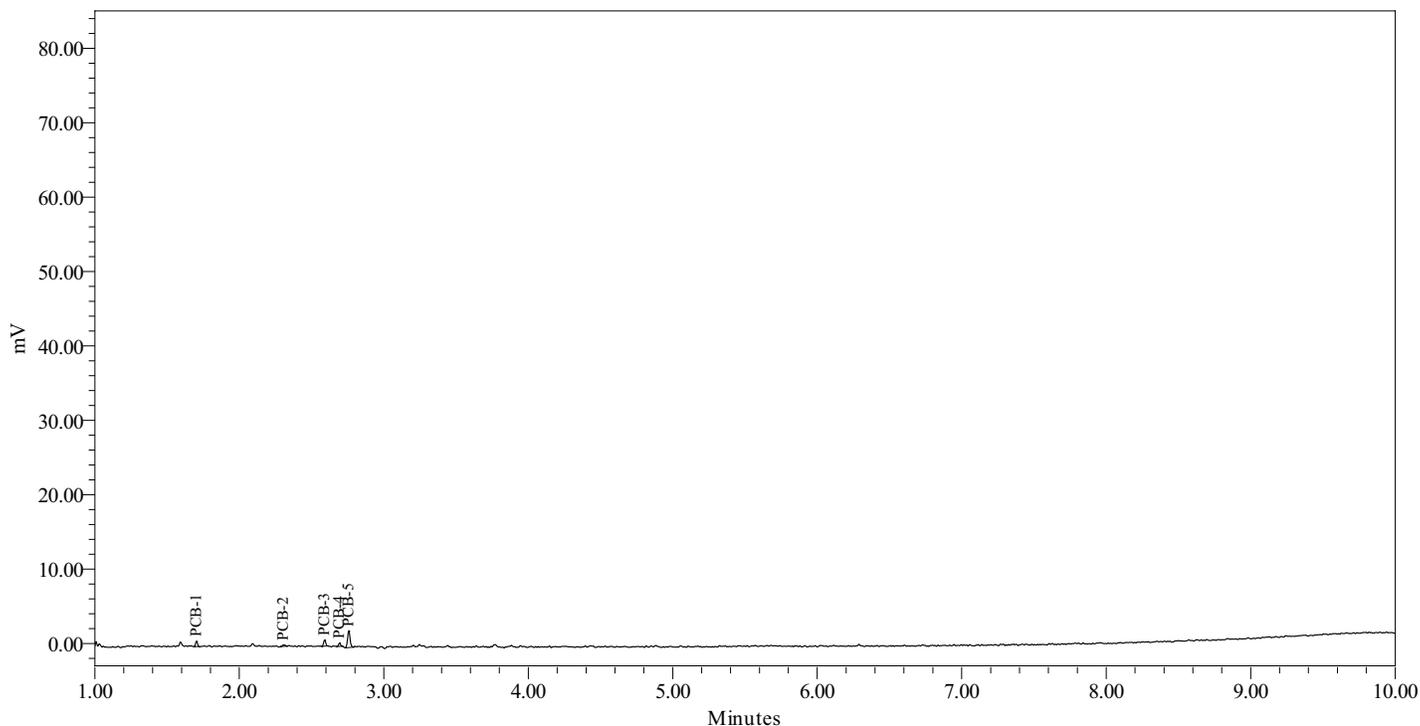
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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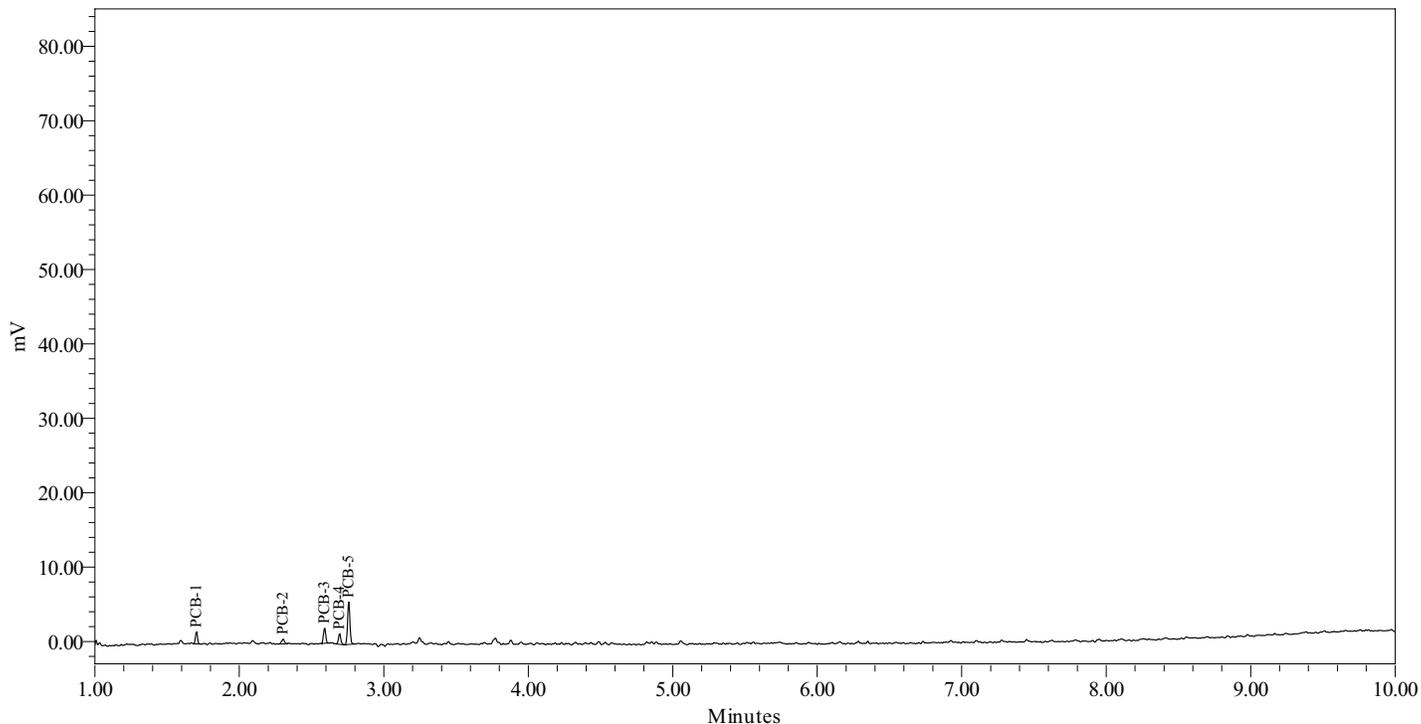
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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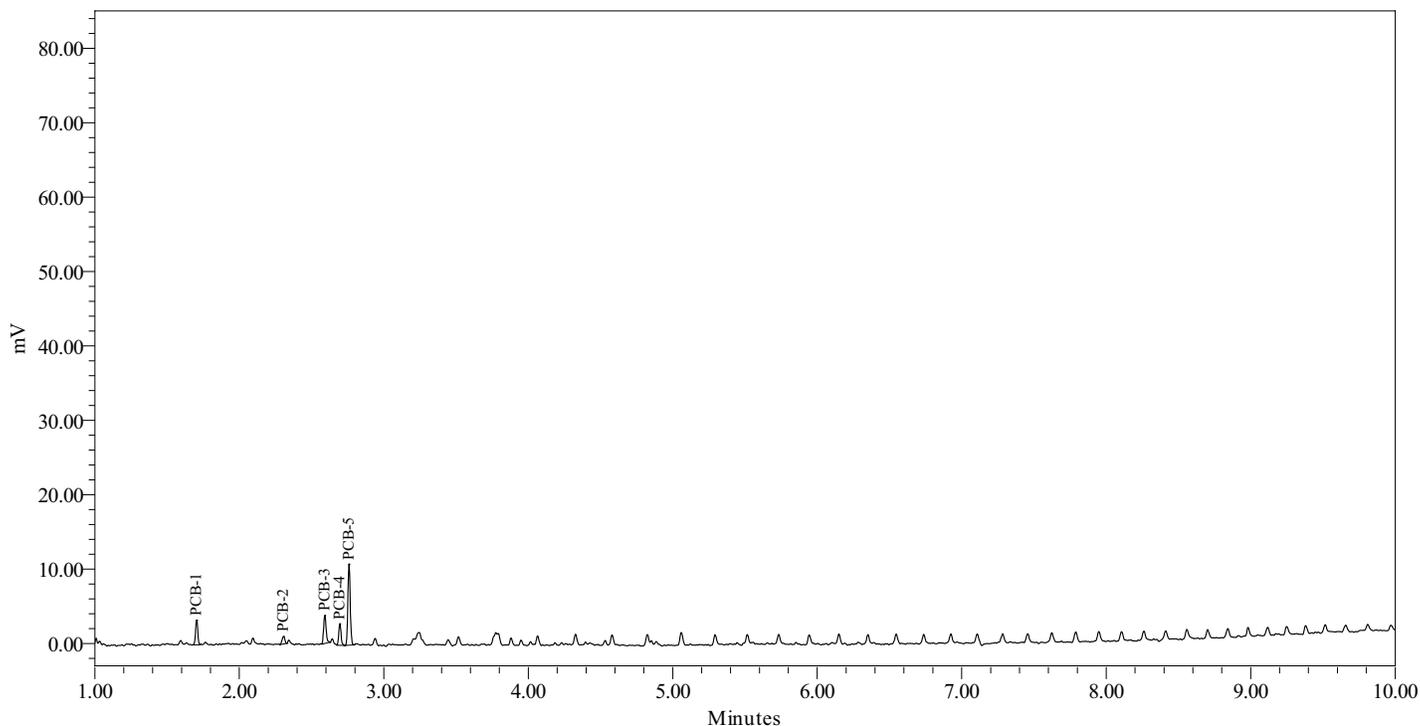
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

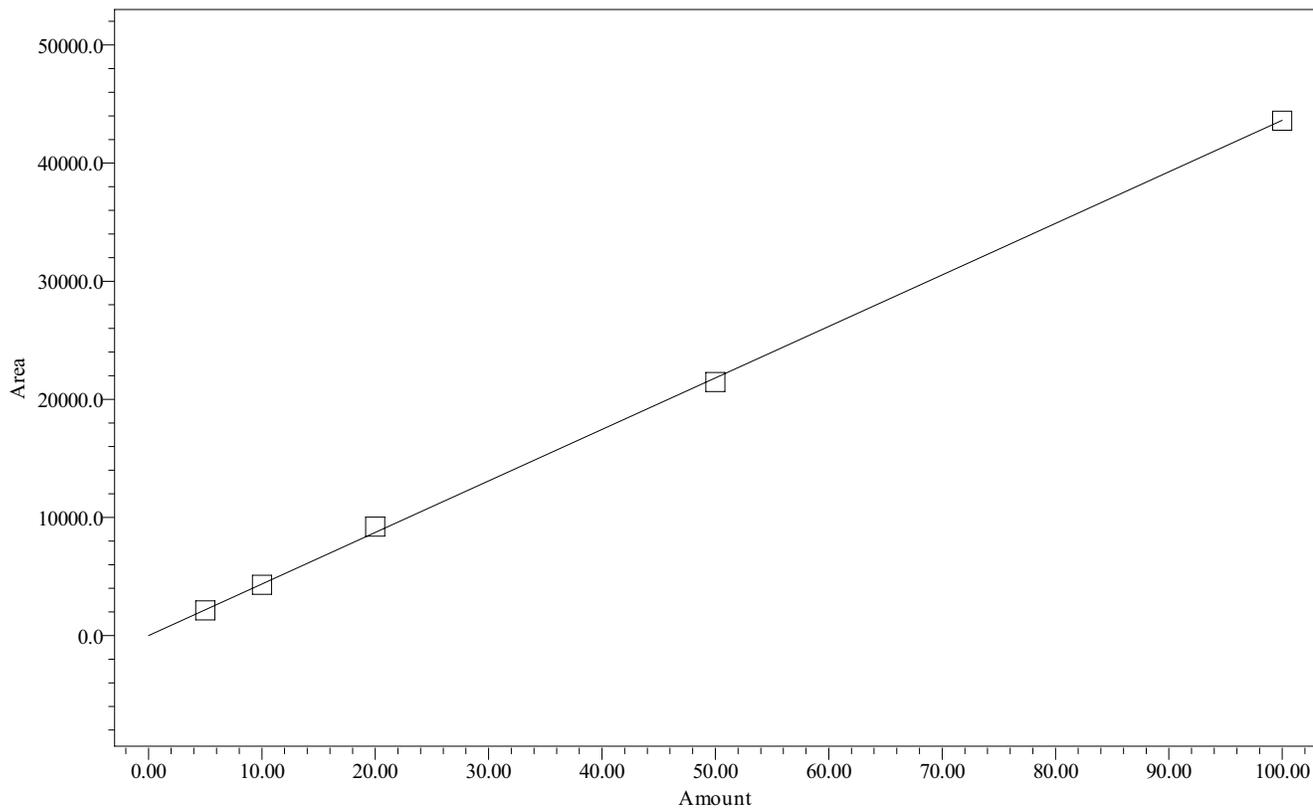
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

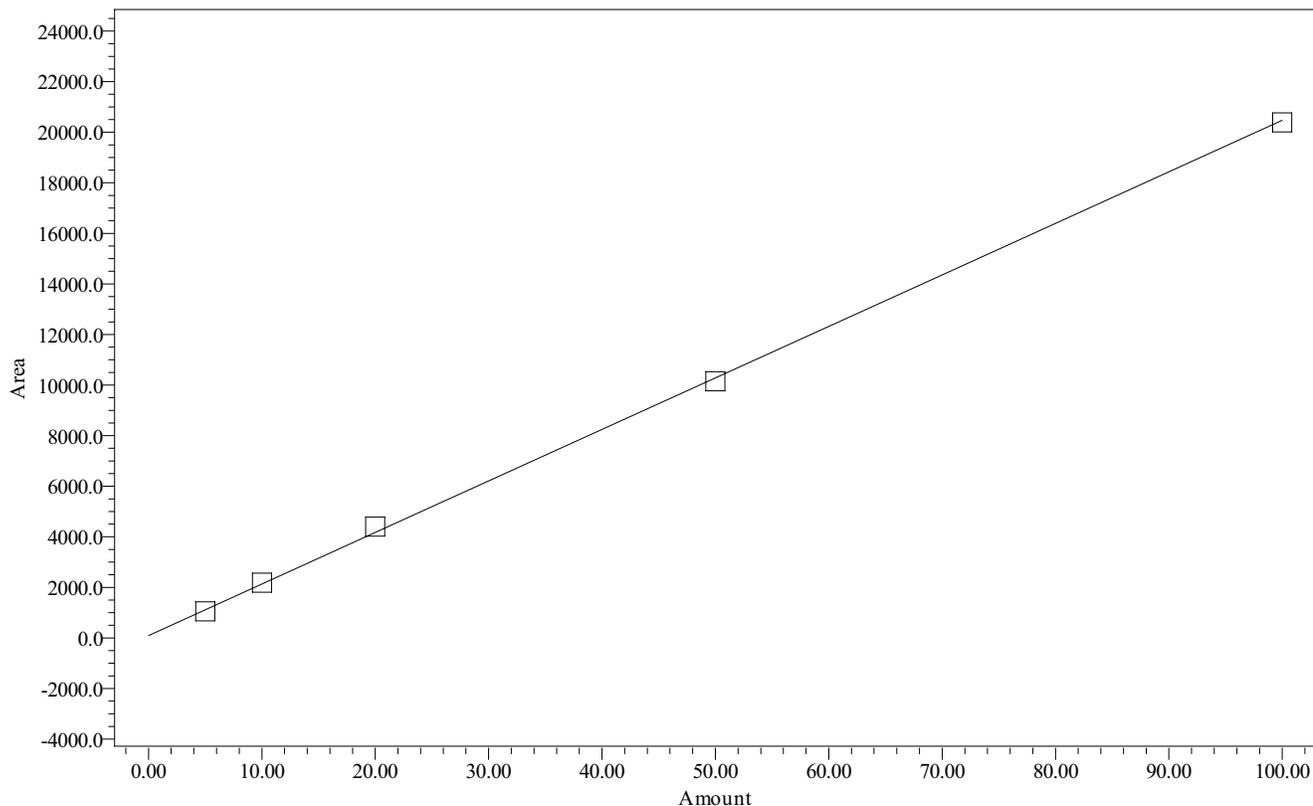
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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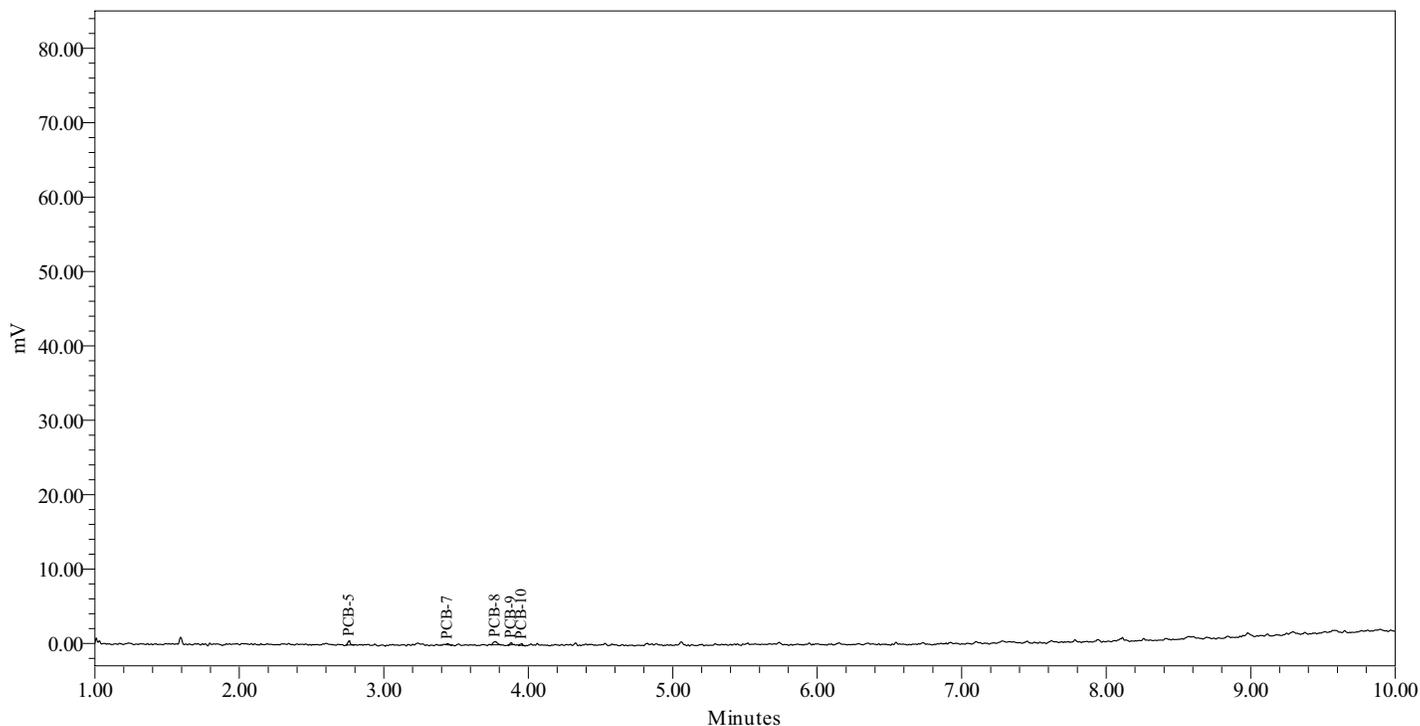
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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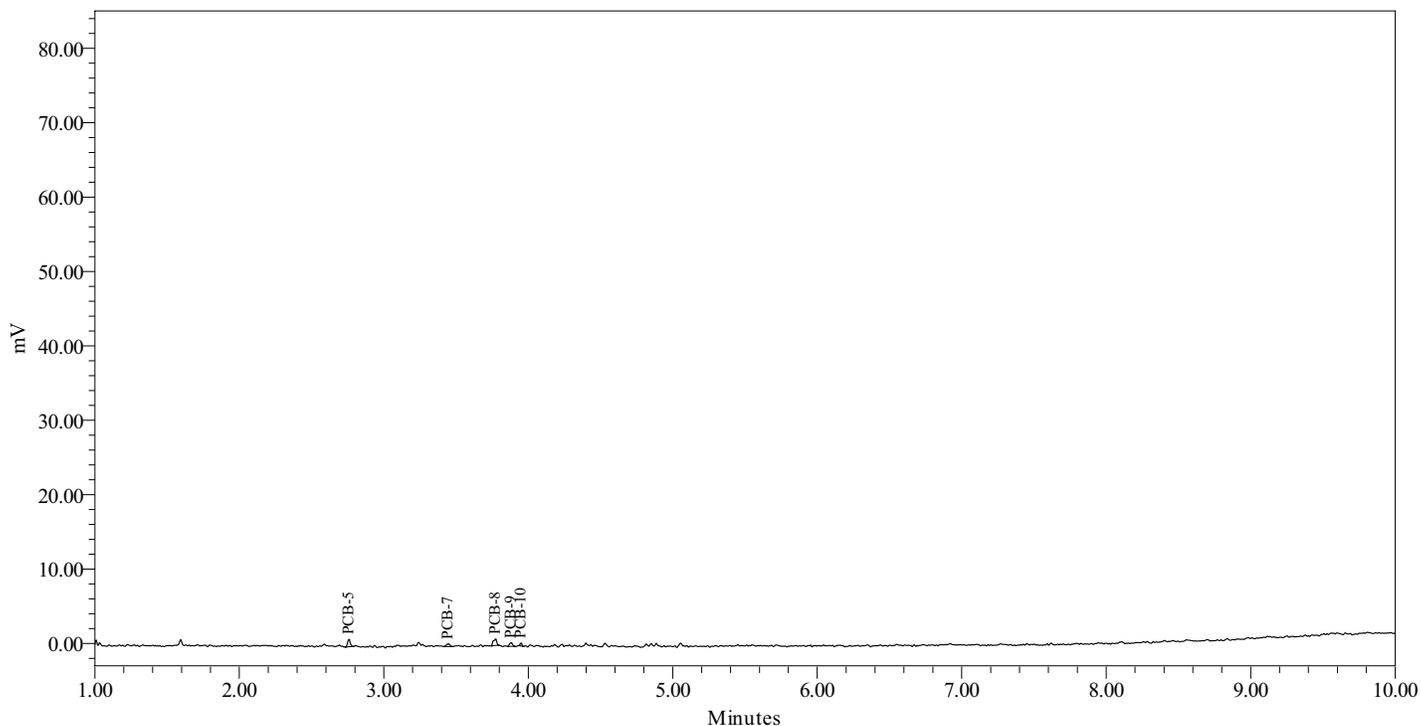
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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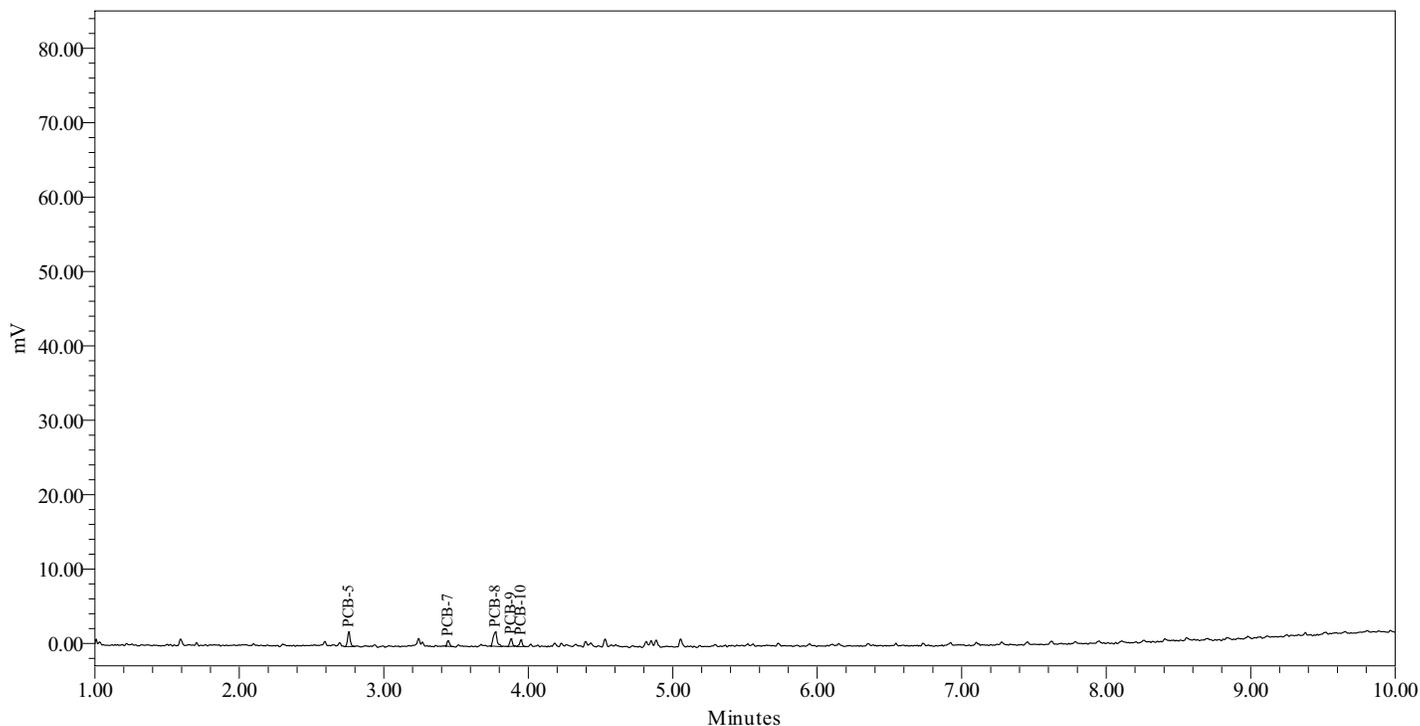
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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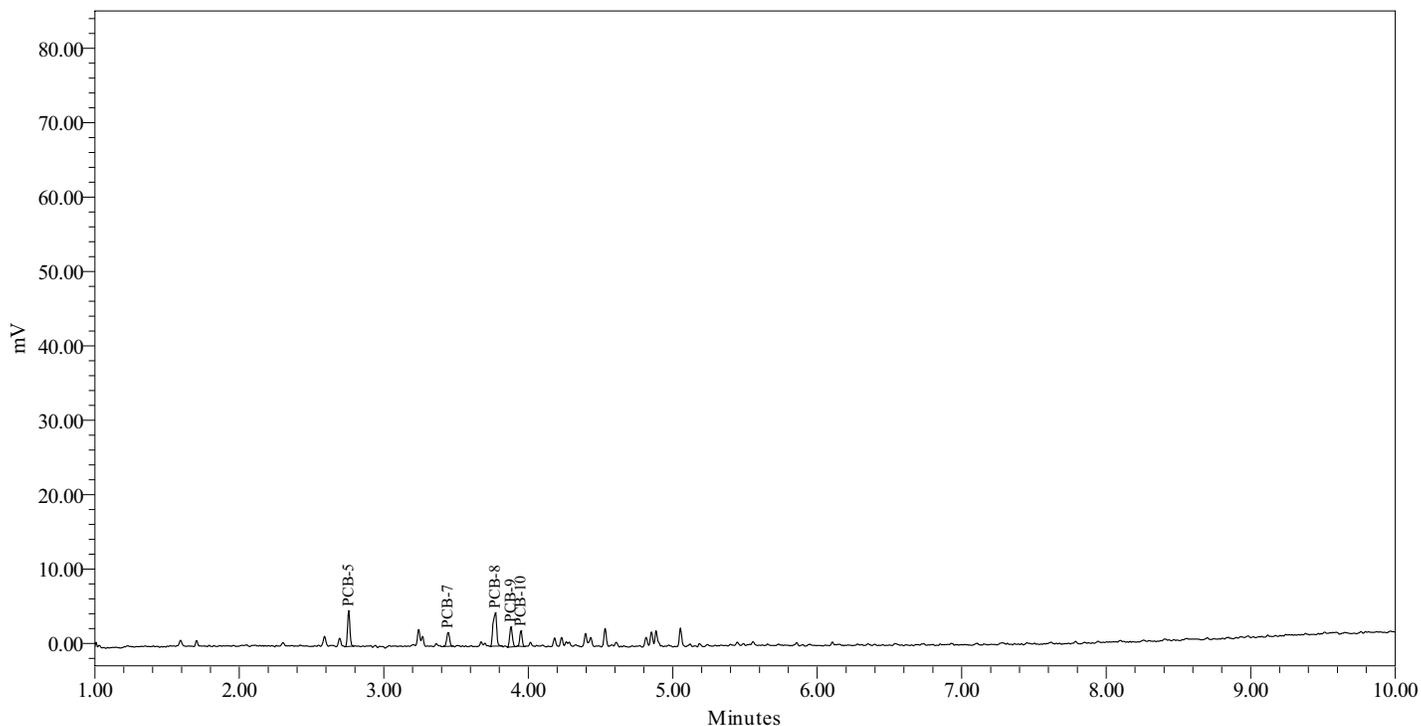
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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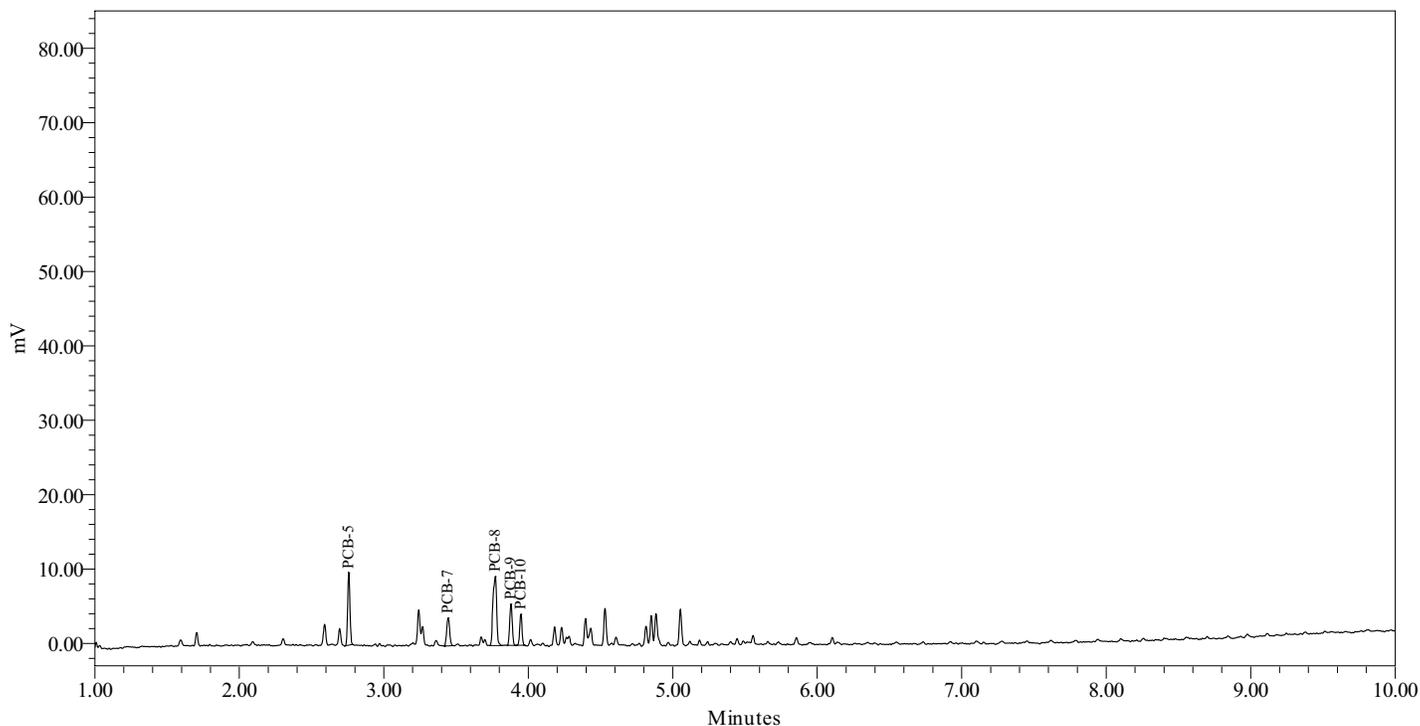
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

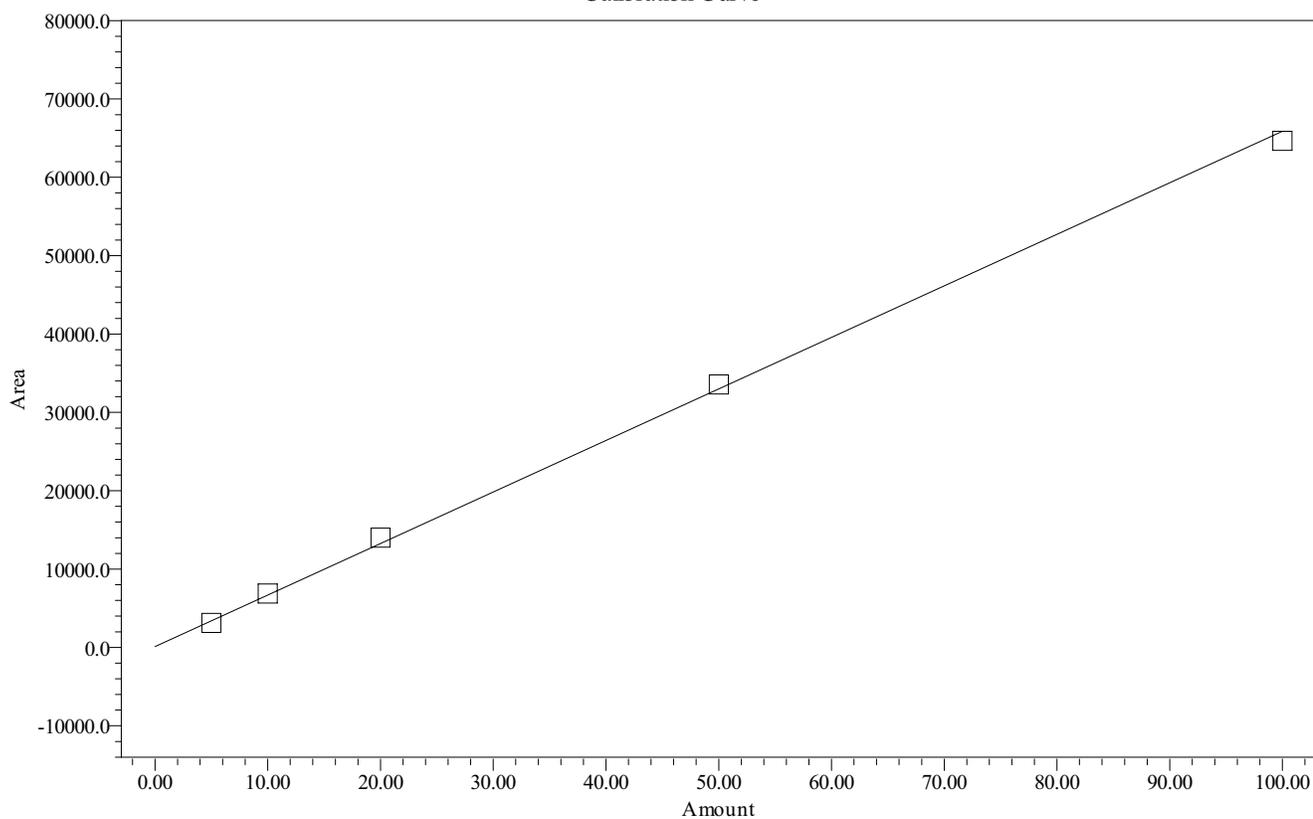
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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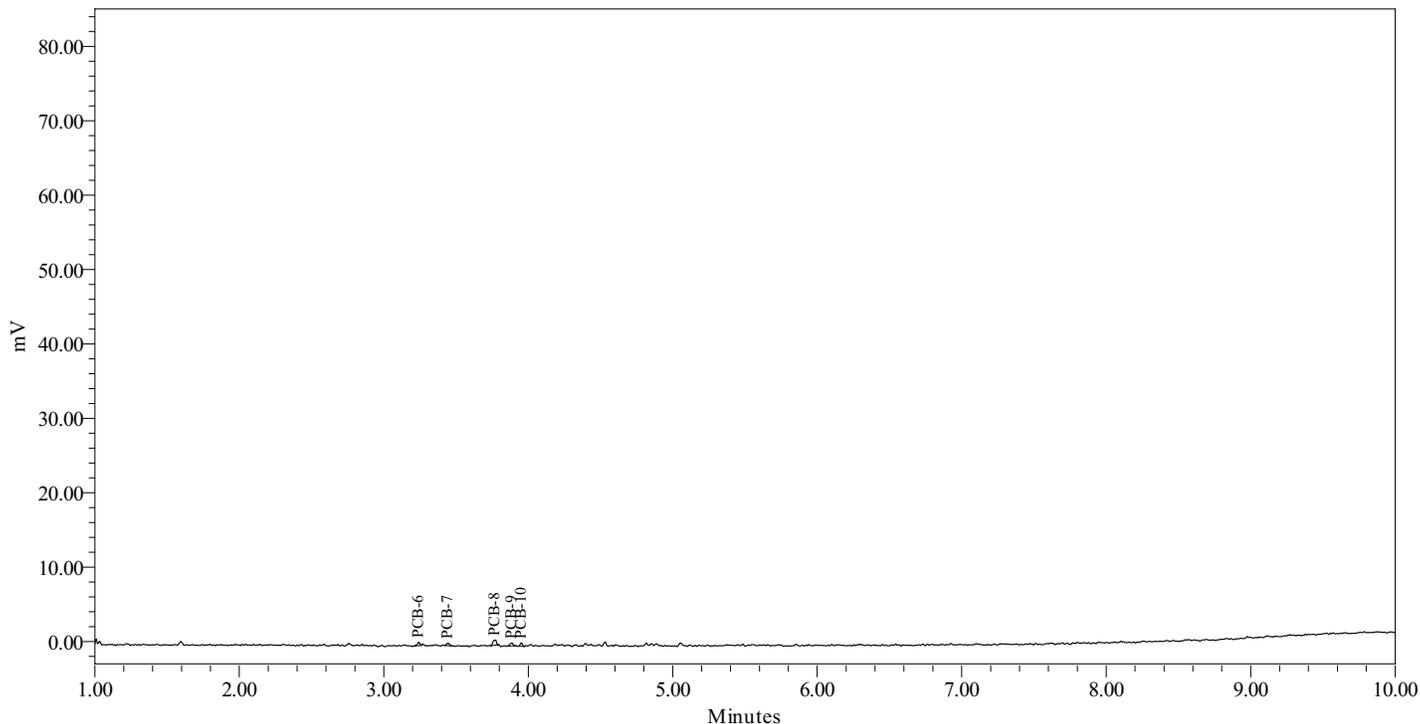
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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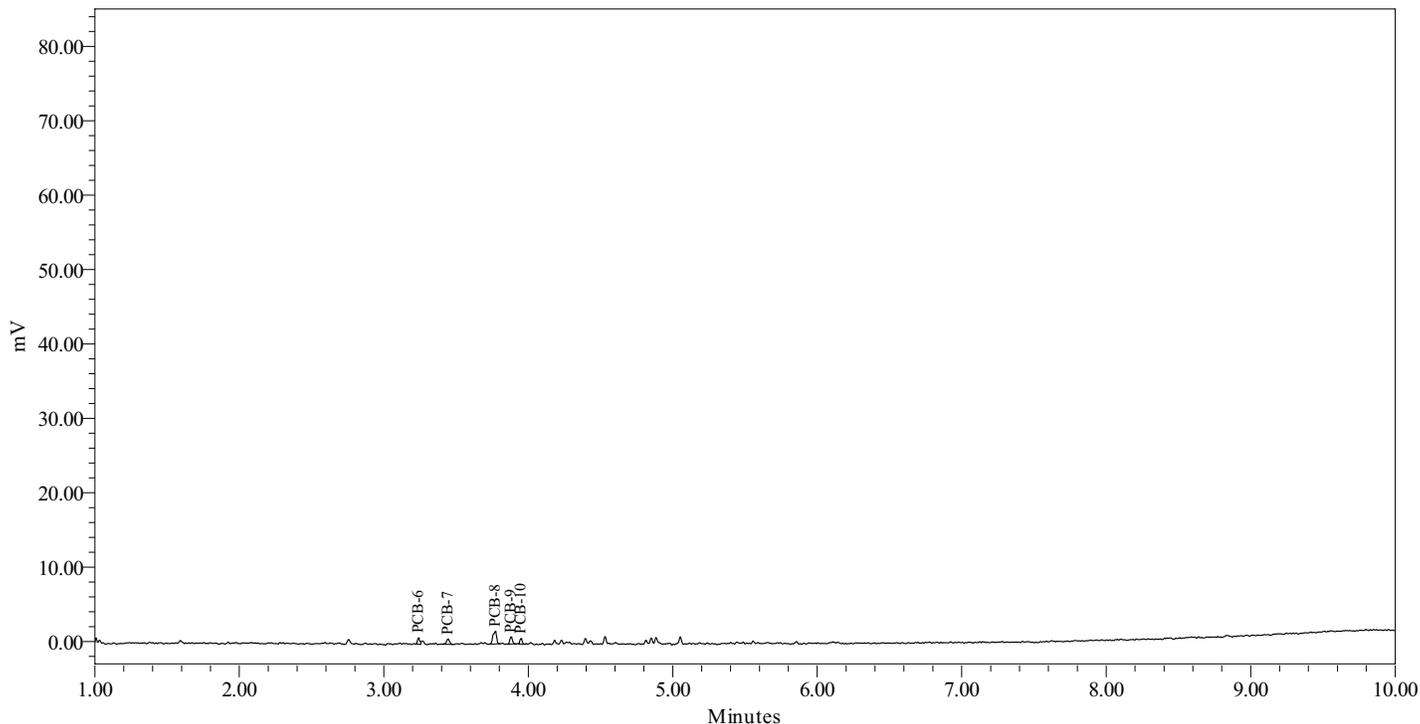
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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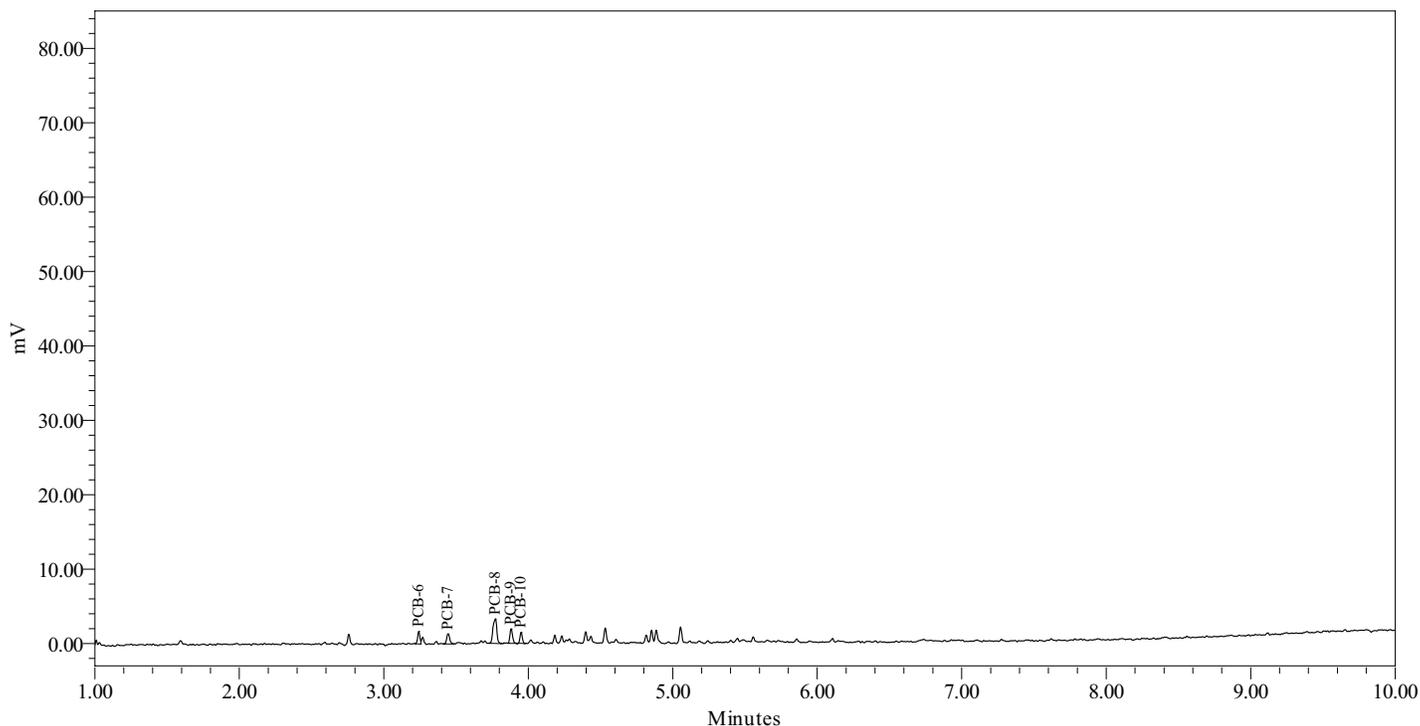
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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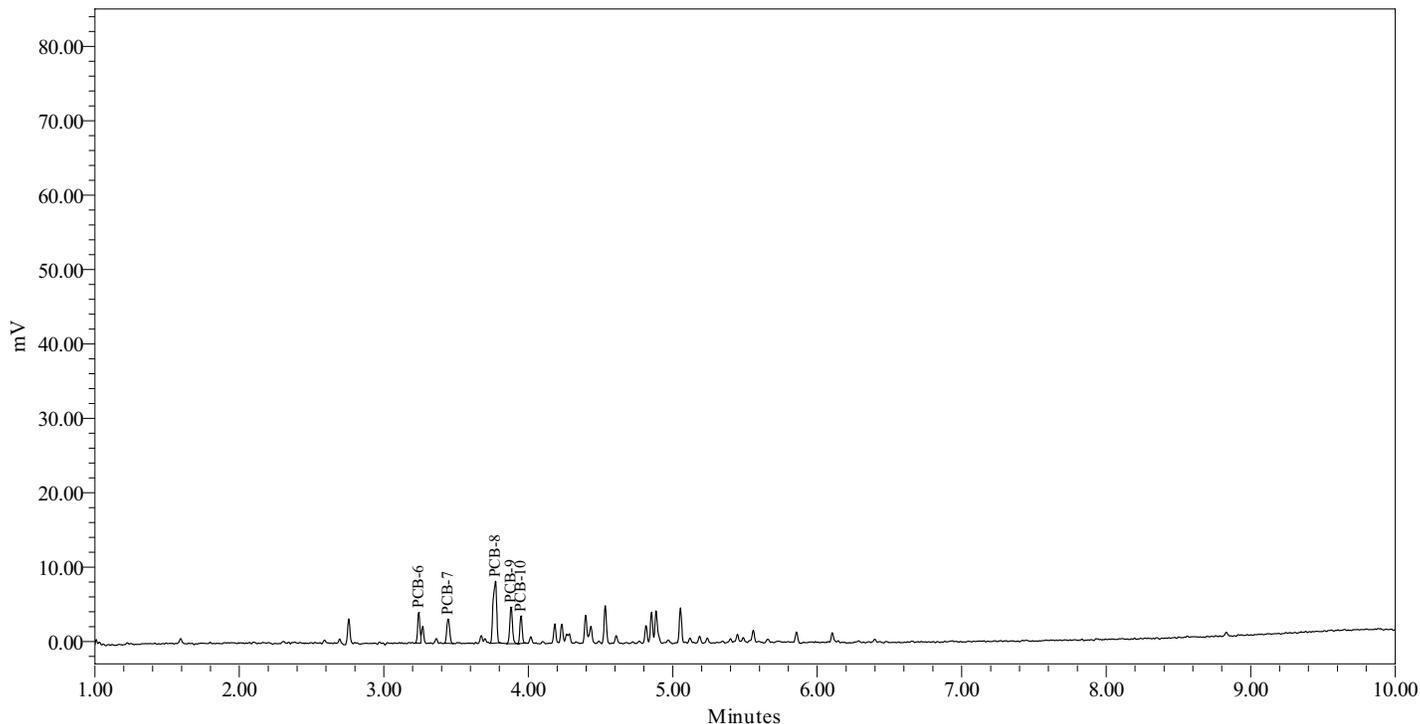
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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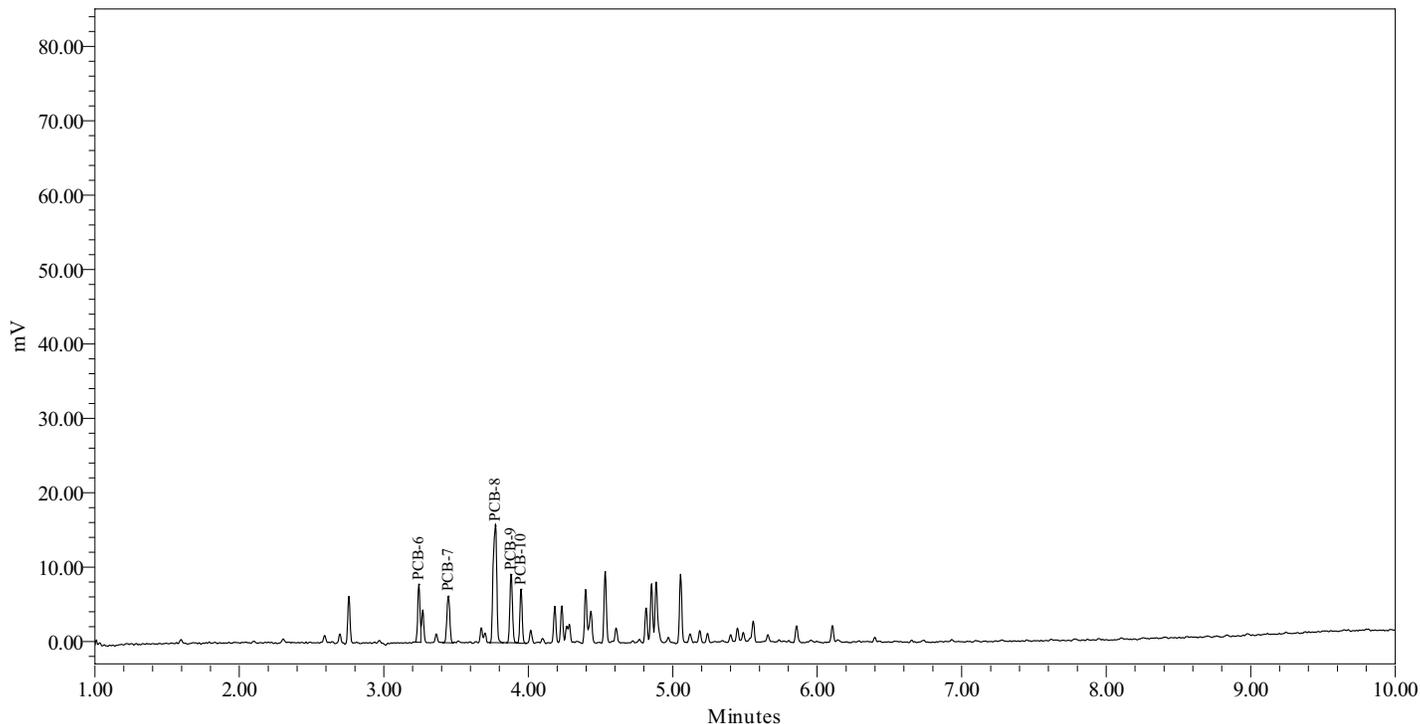
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

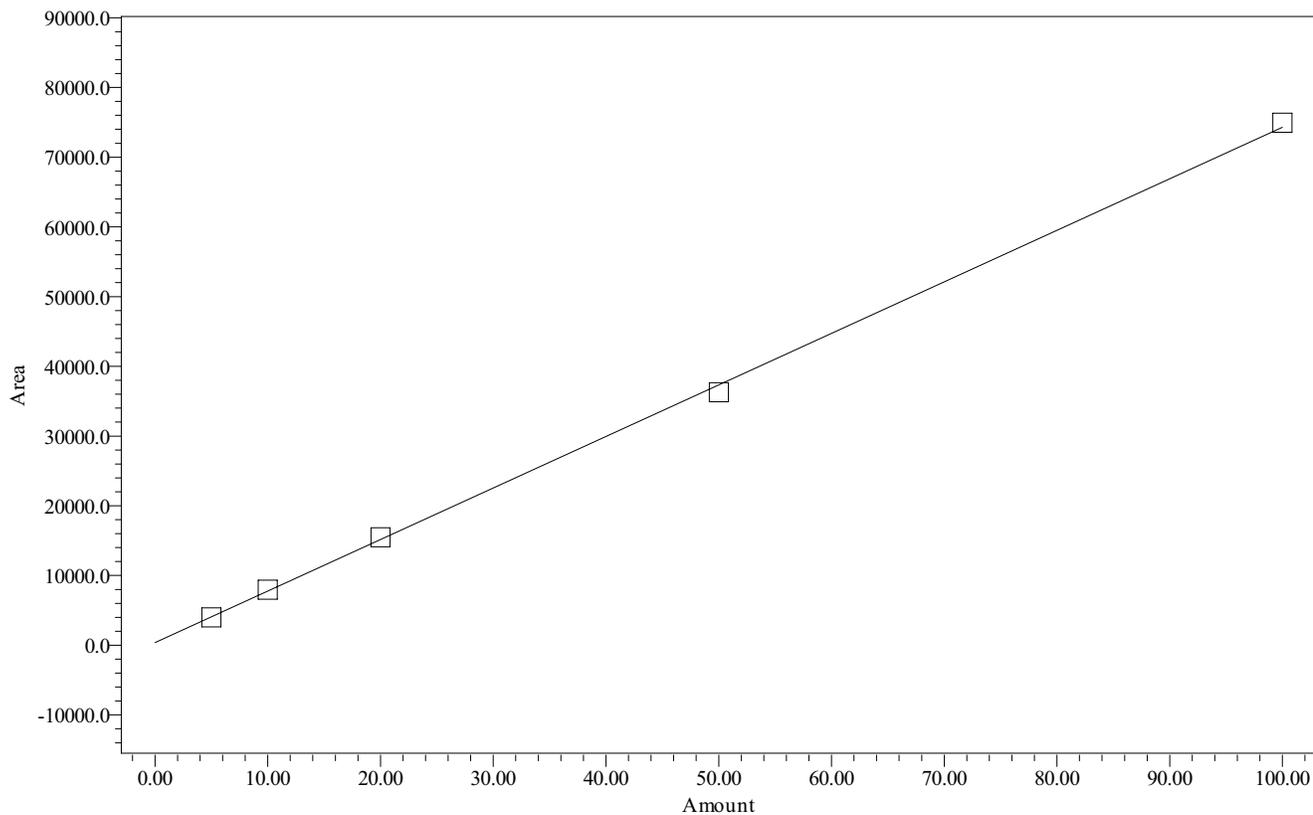
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

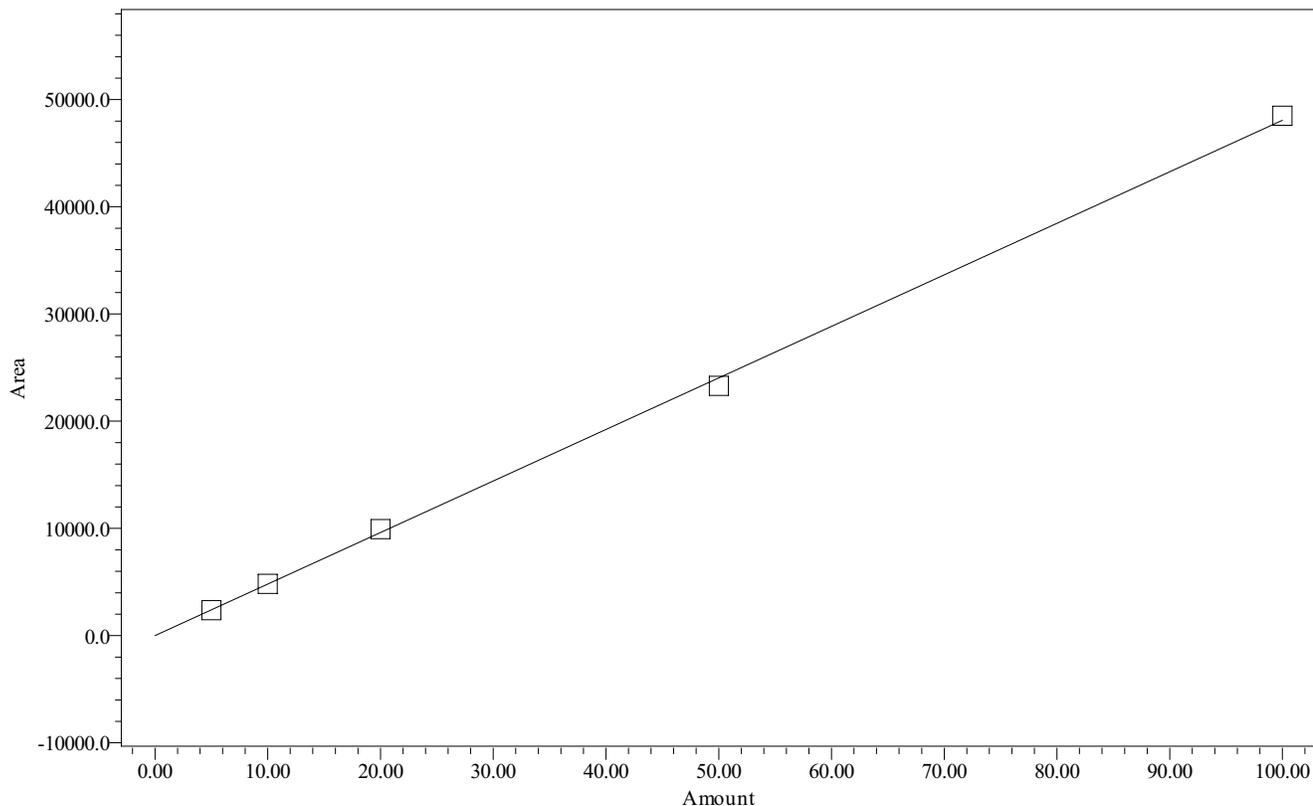
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00          | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00         | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00         | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00         | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00        | 48504    | 100.9       | 0.912       | No     | No     |

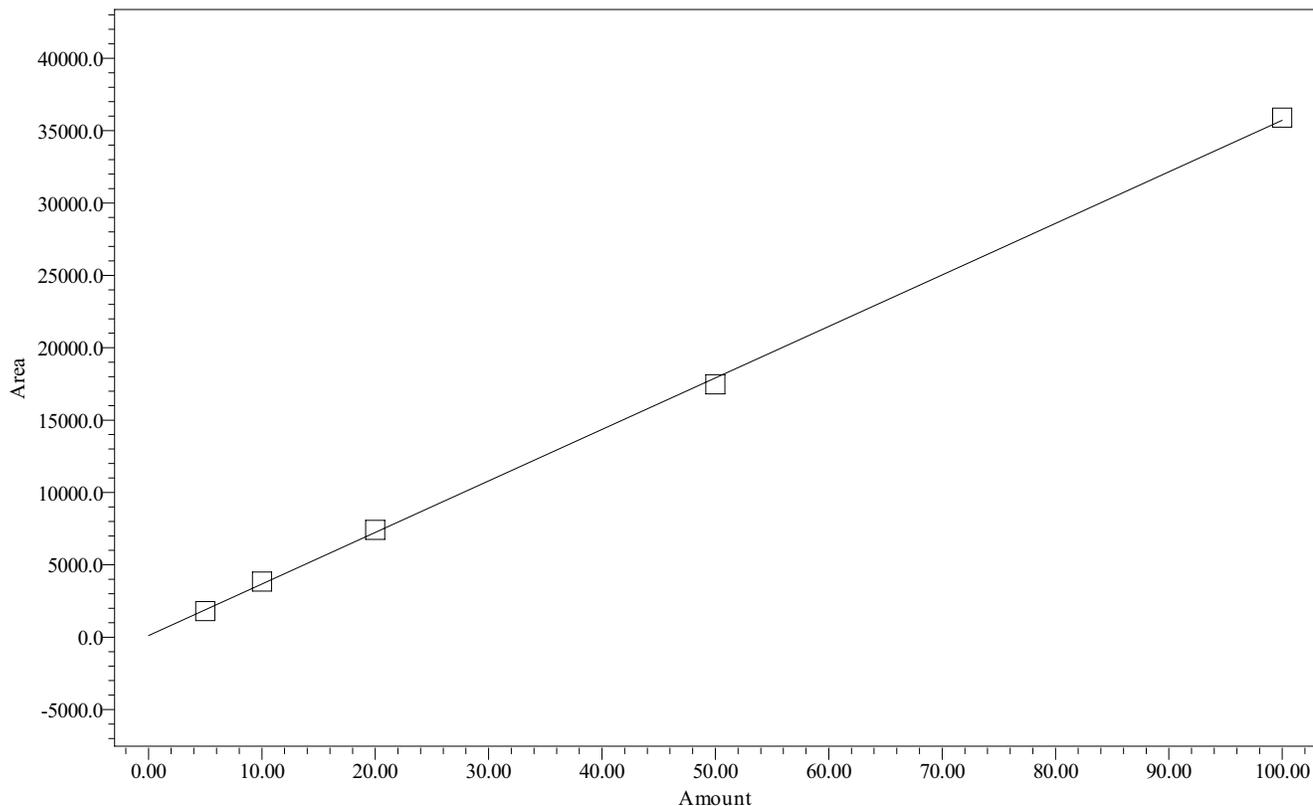
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|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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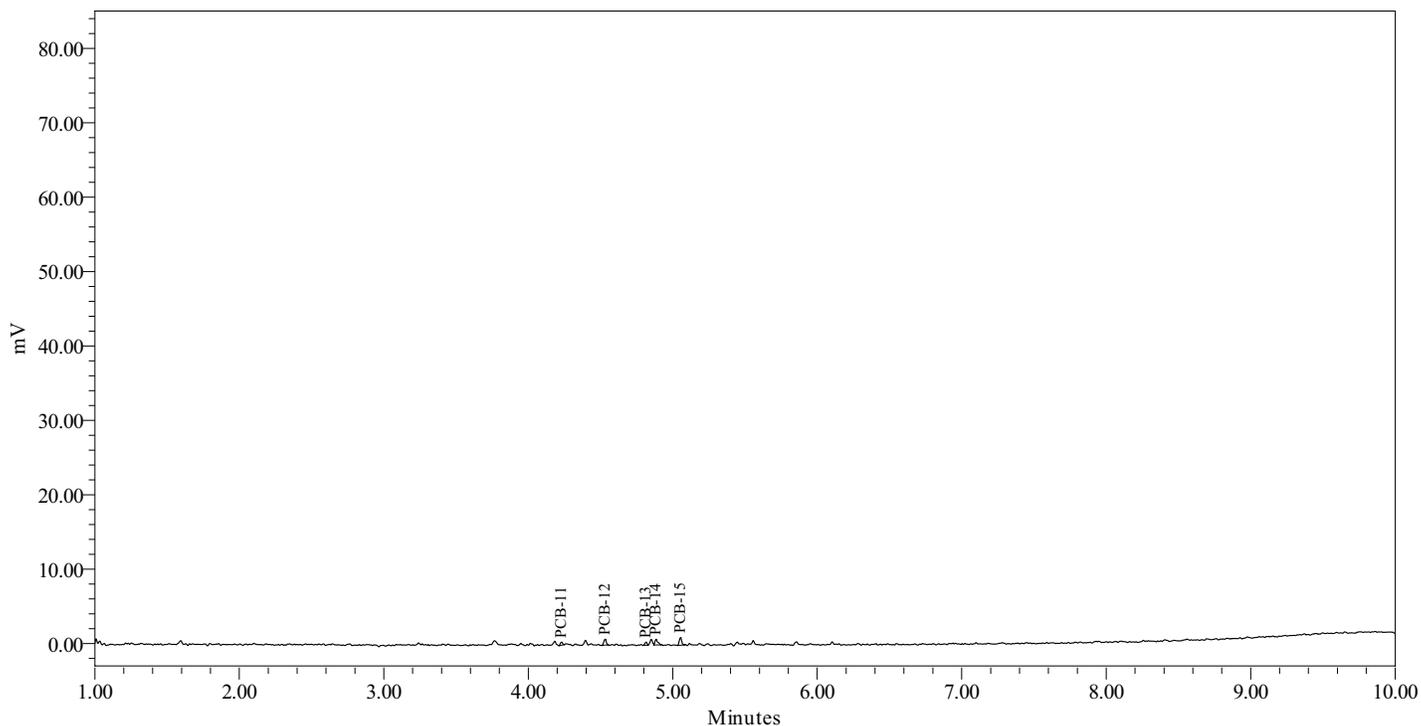
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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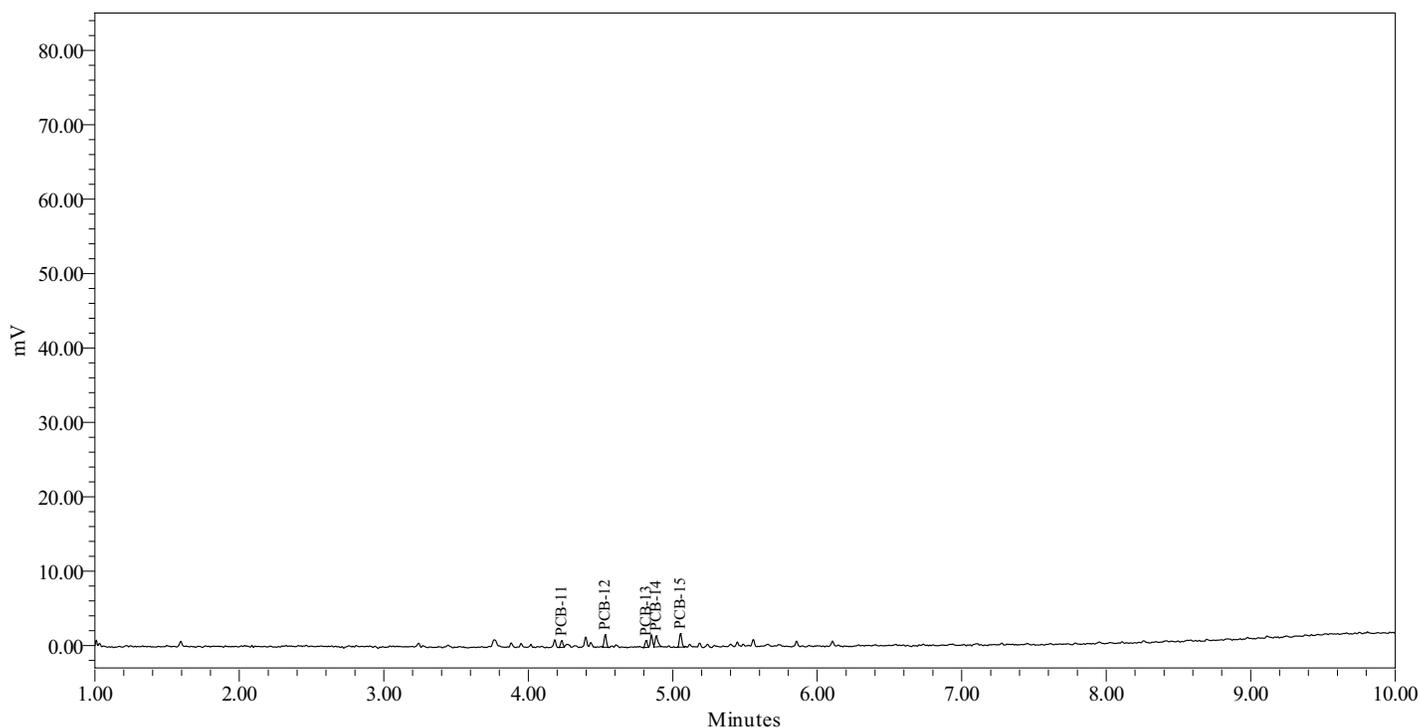
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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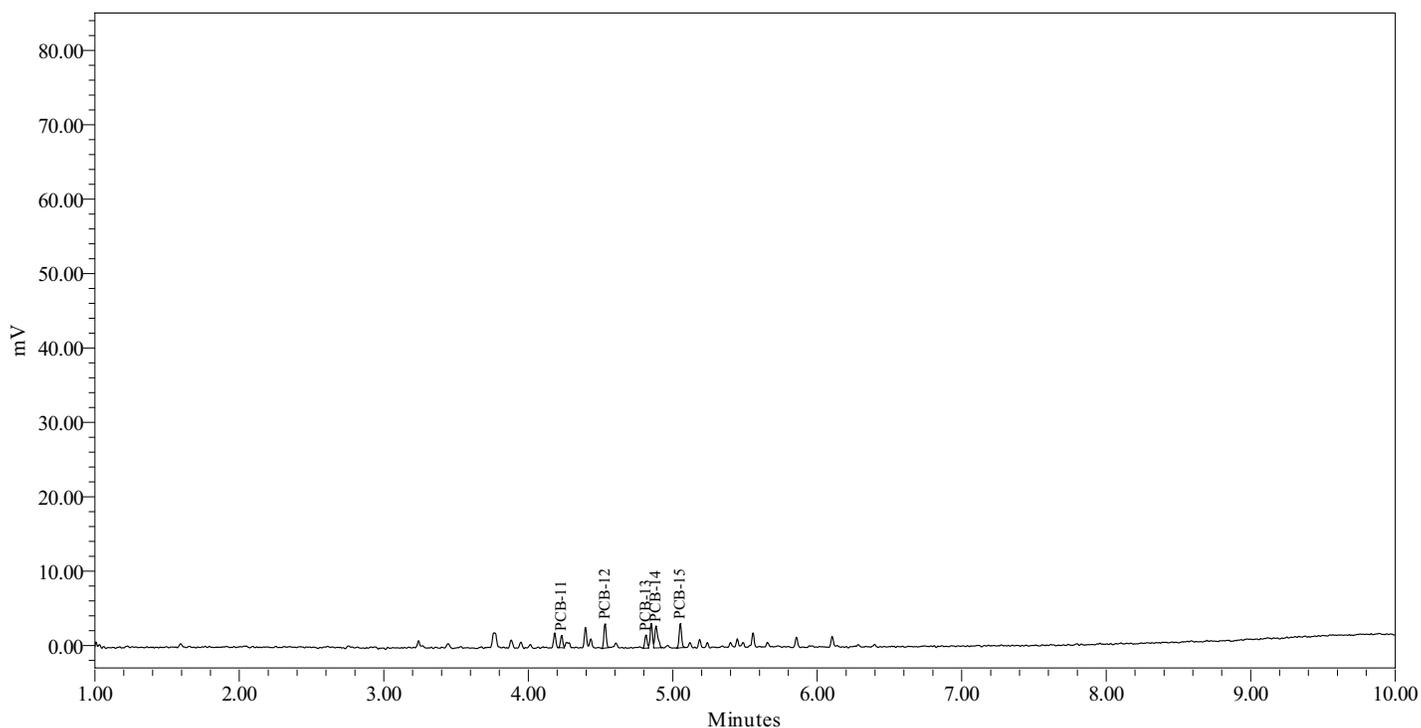
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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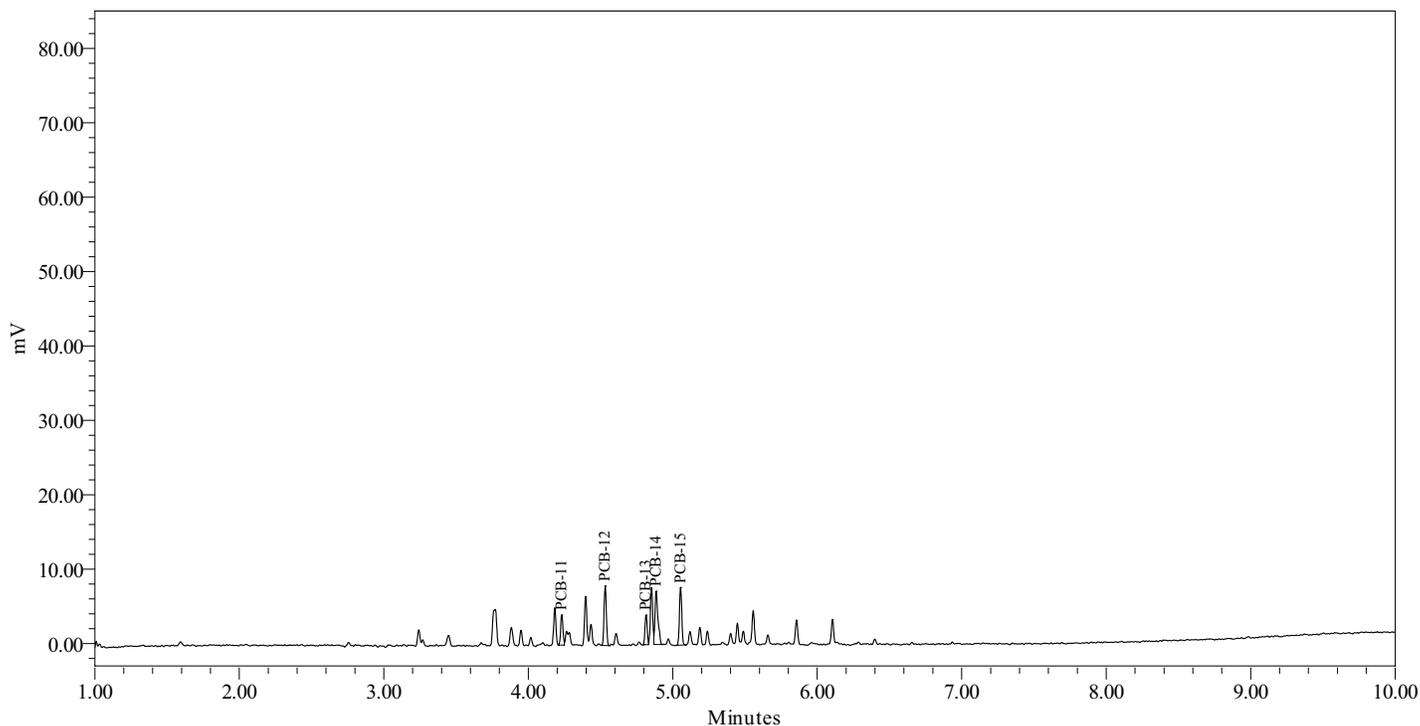
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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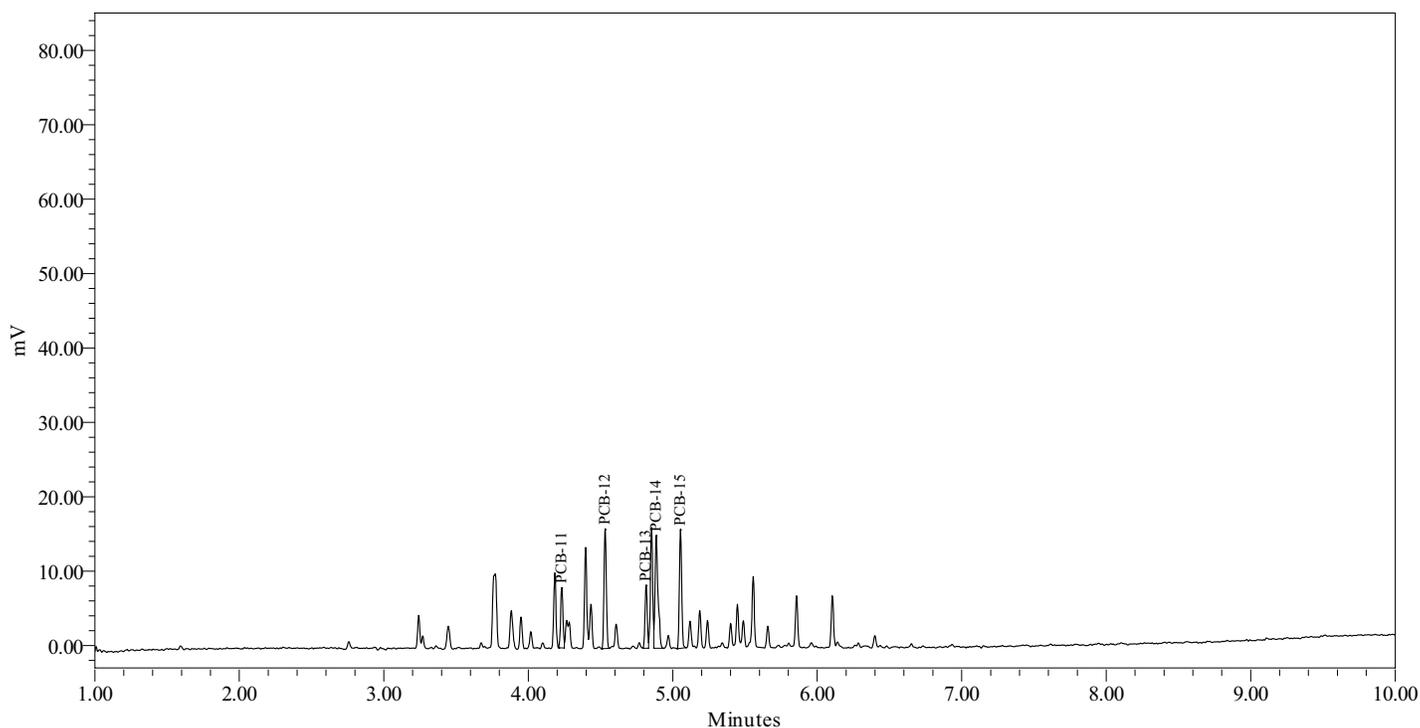
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

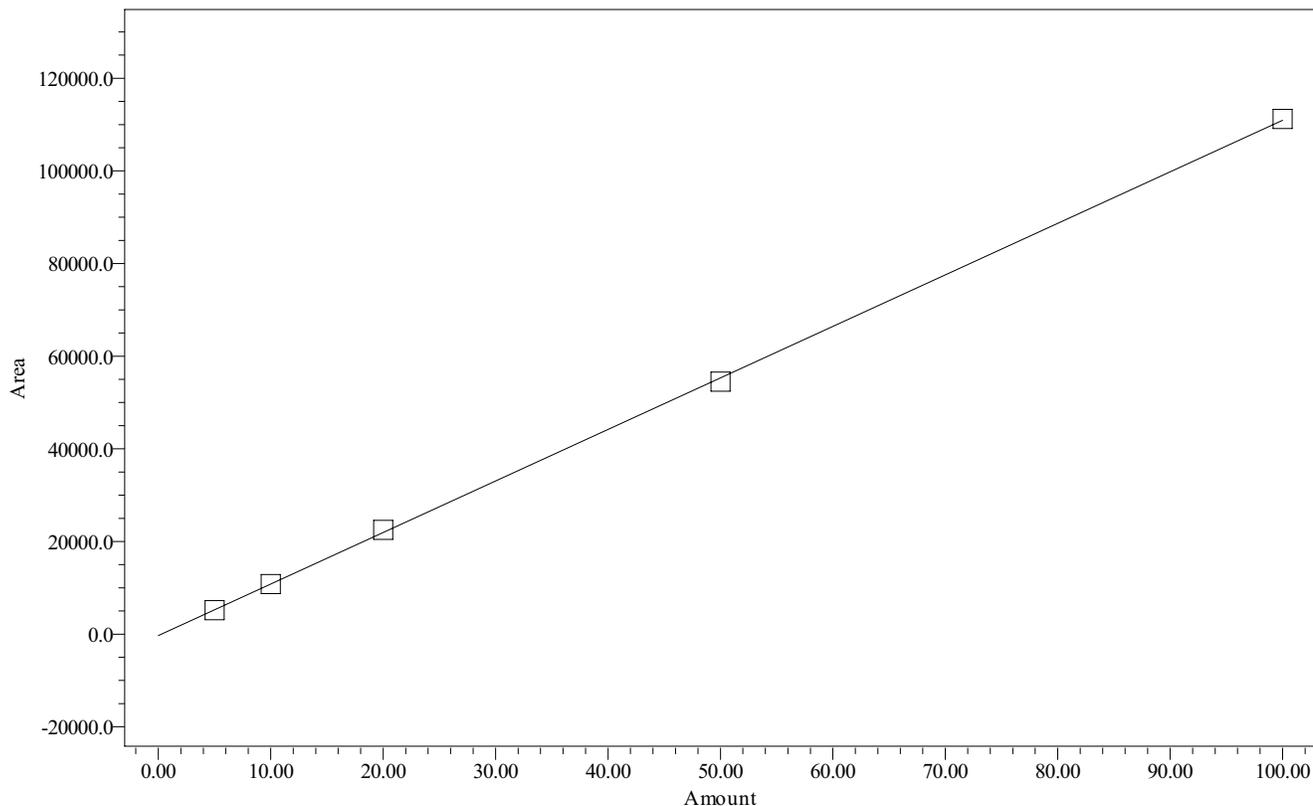
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1254                    | Coefficient constant A:                       | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

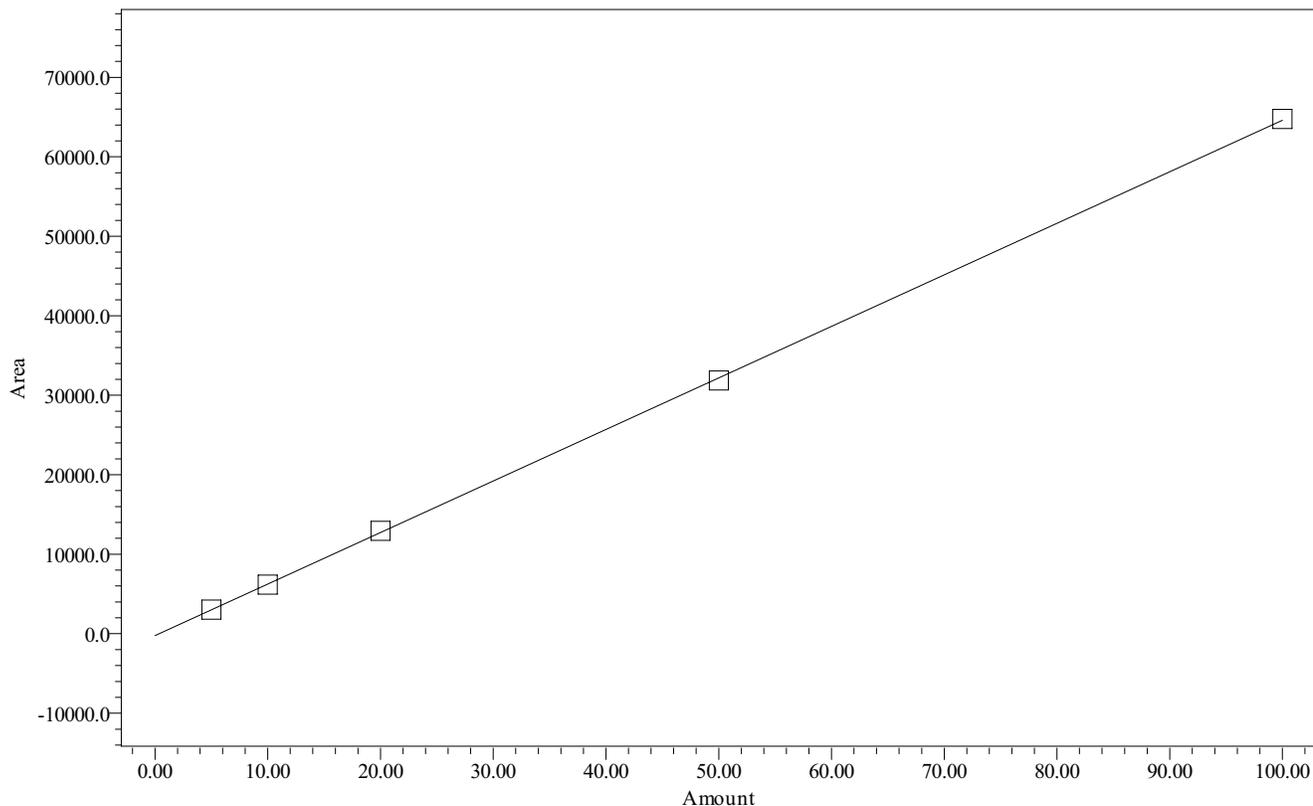
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

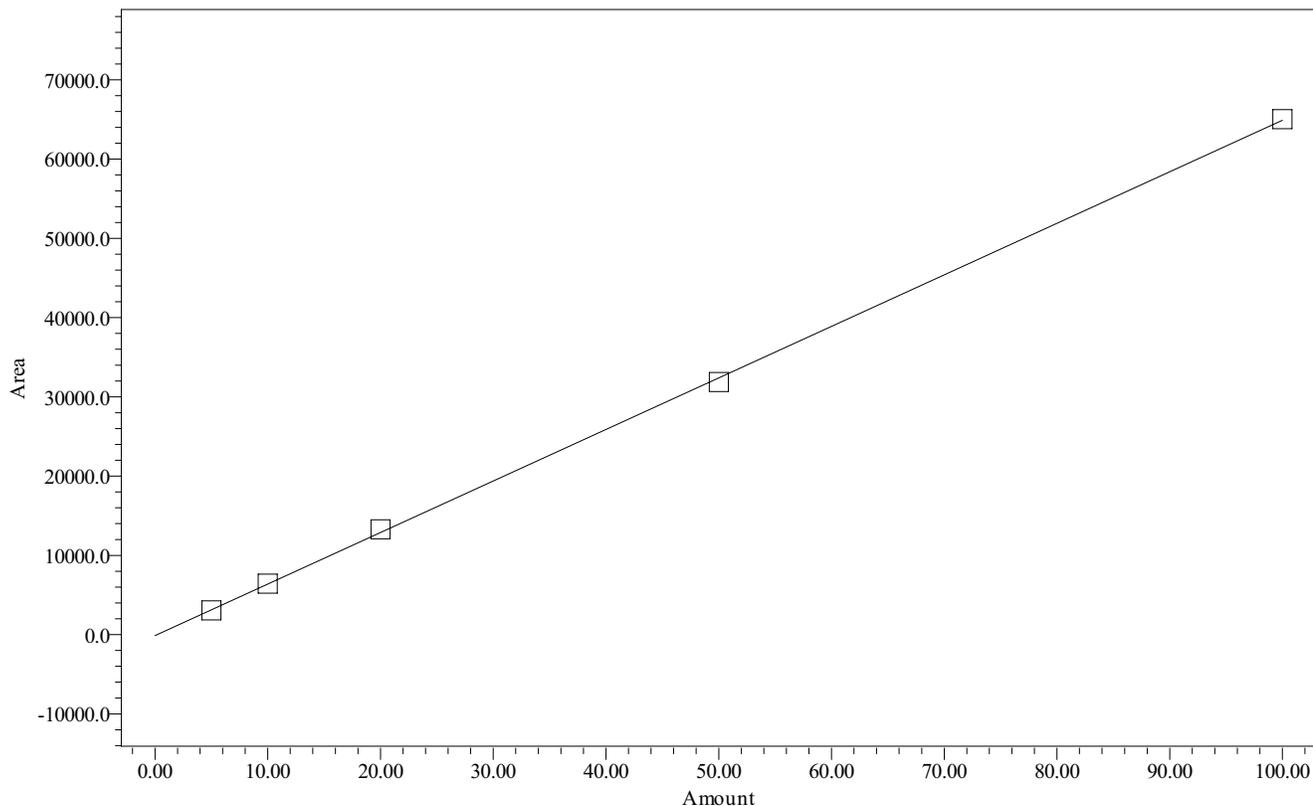
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|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

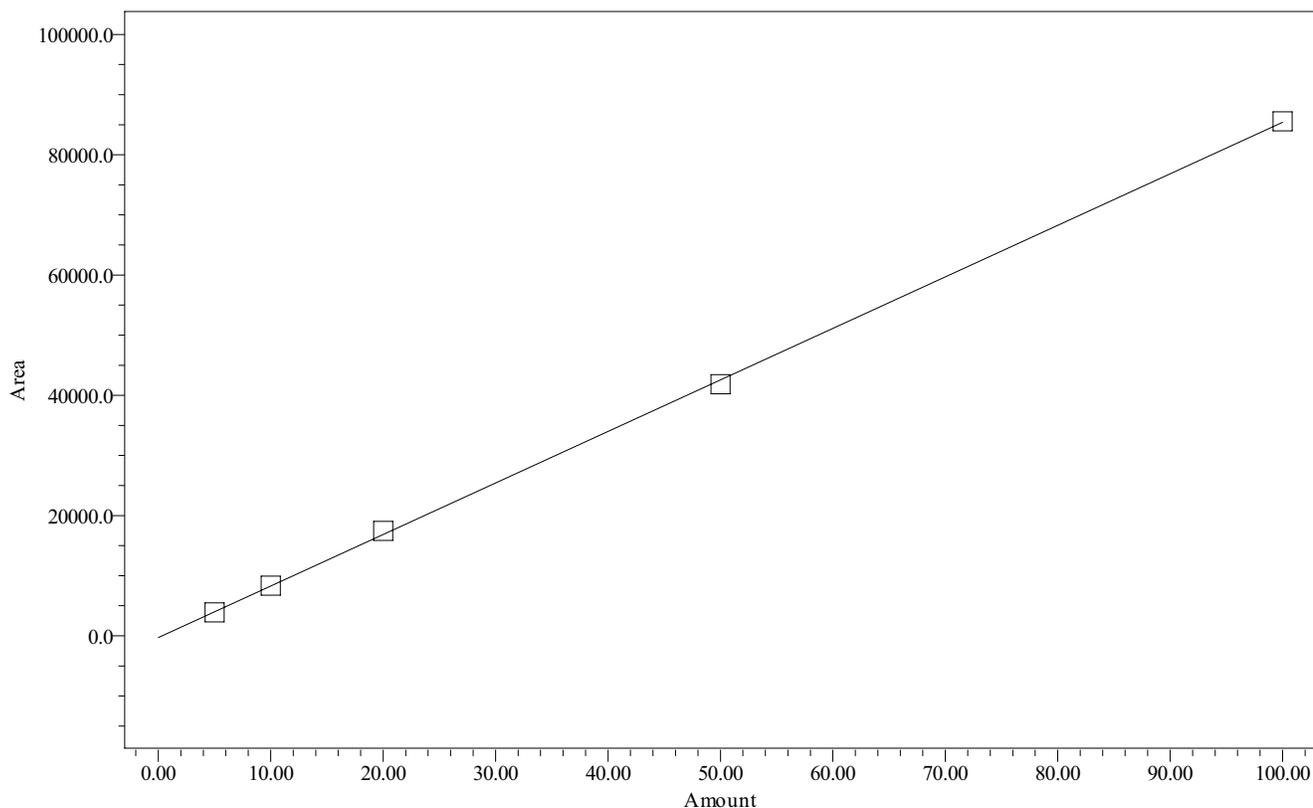
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

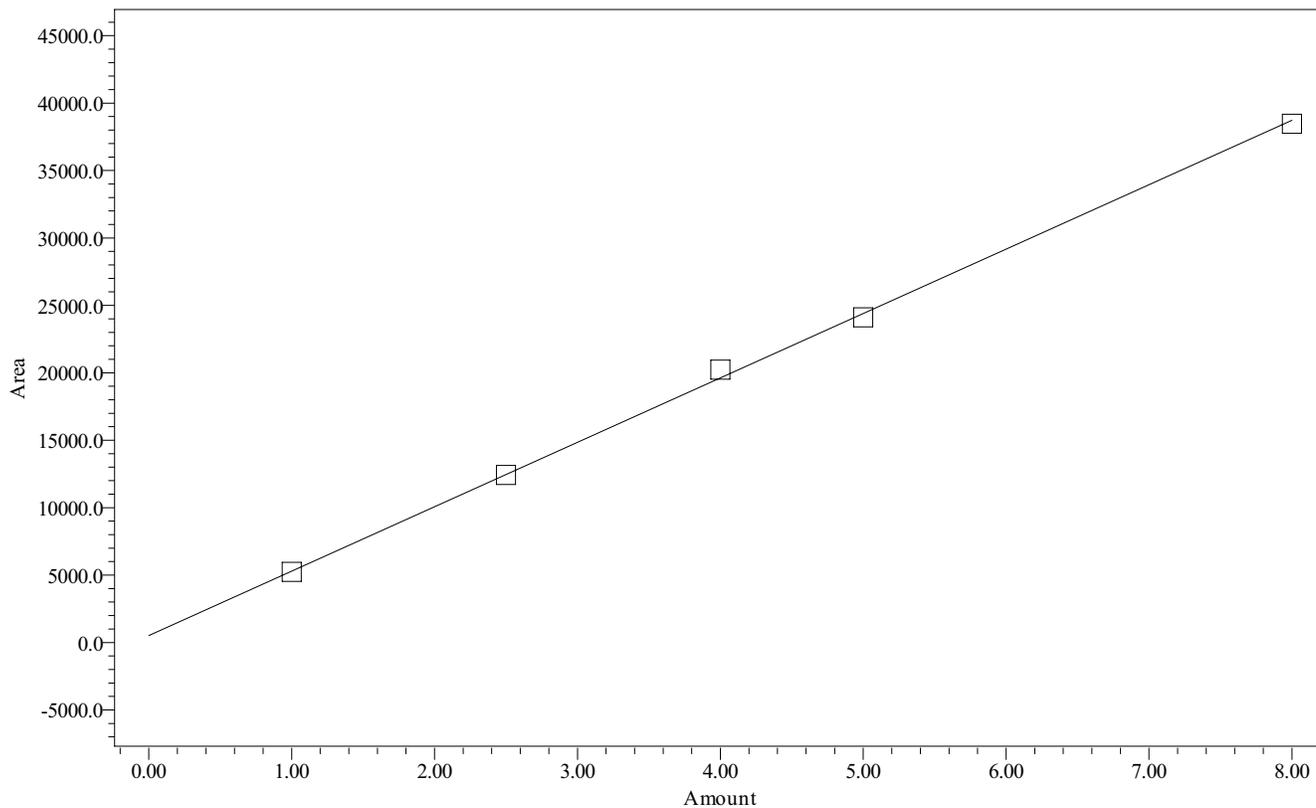
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | TCMX                     | Coefficient constant A:                       | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

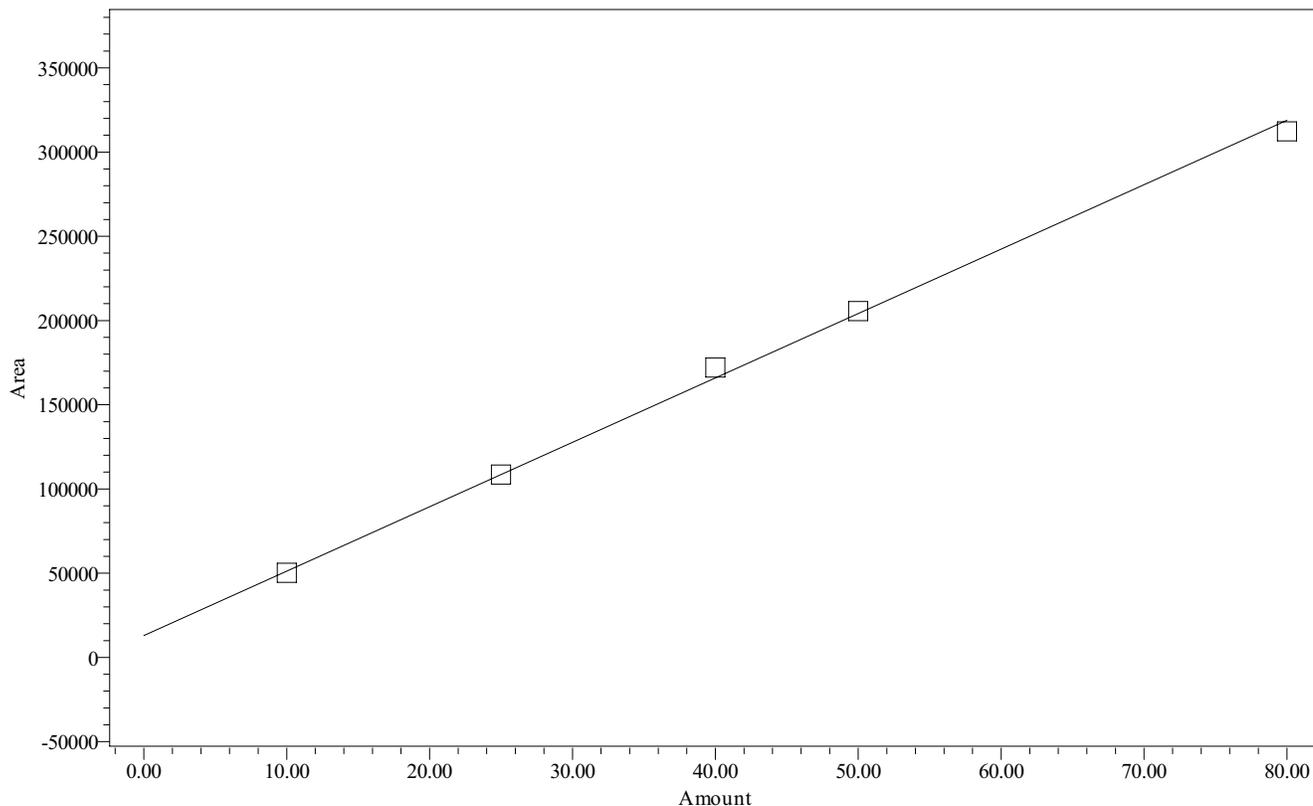
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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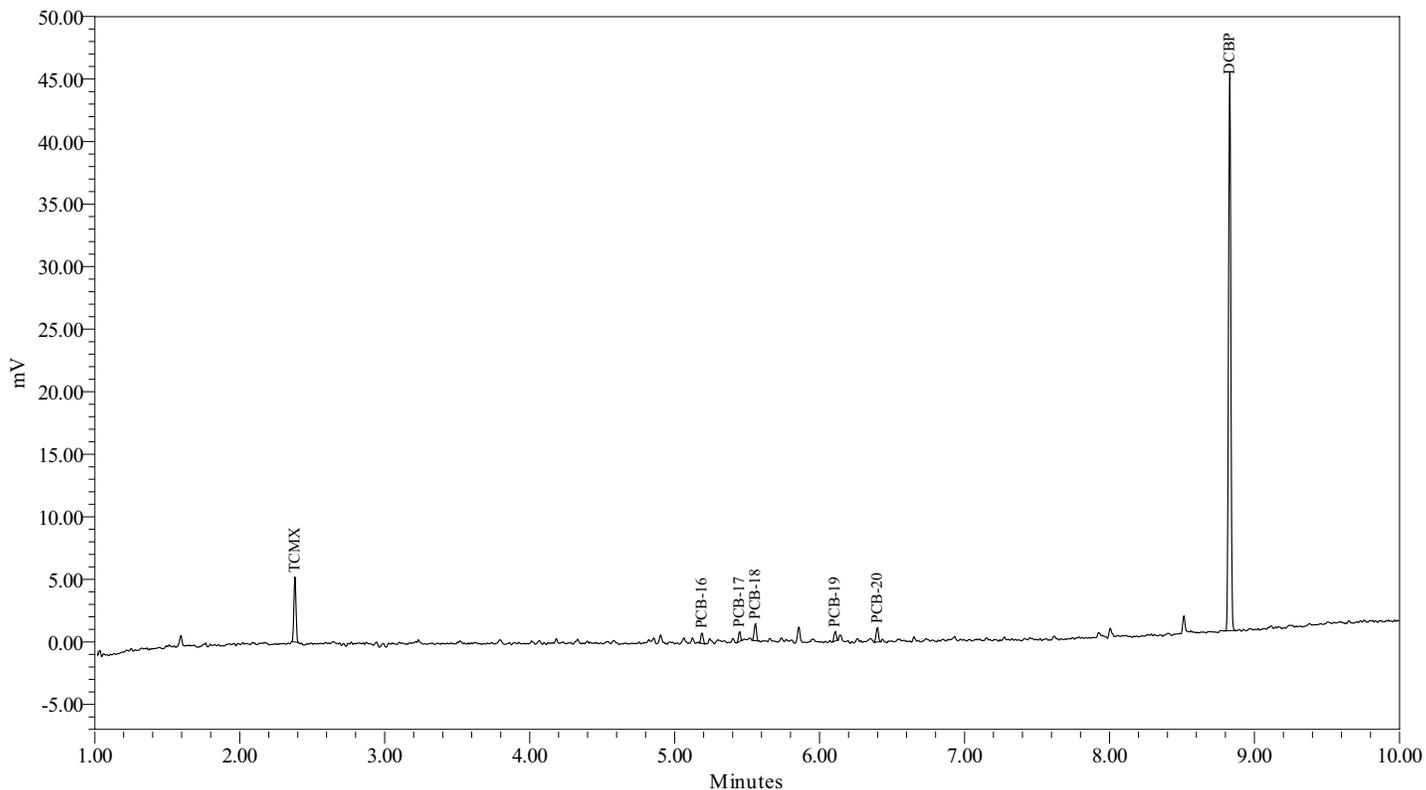
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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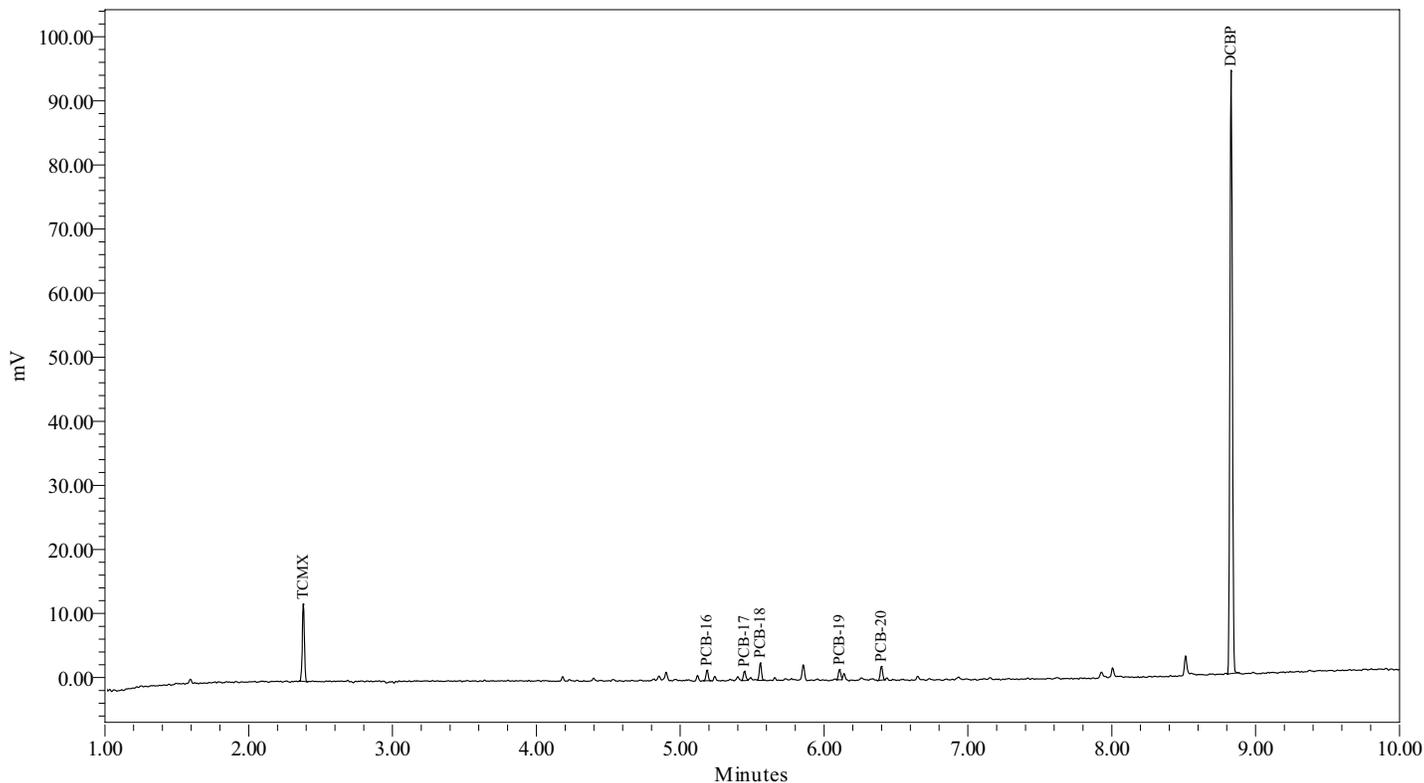
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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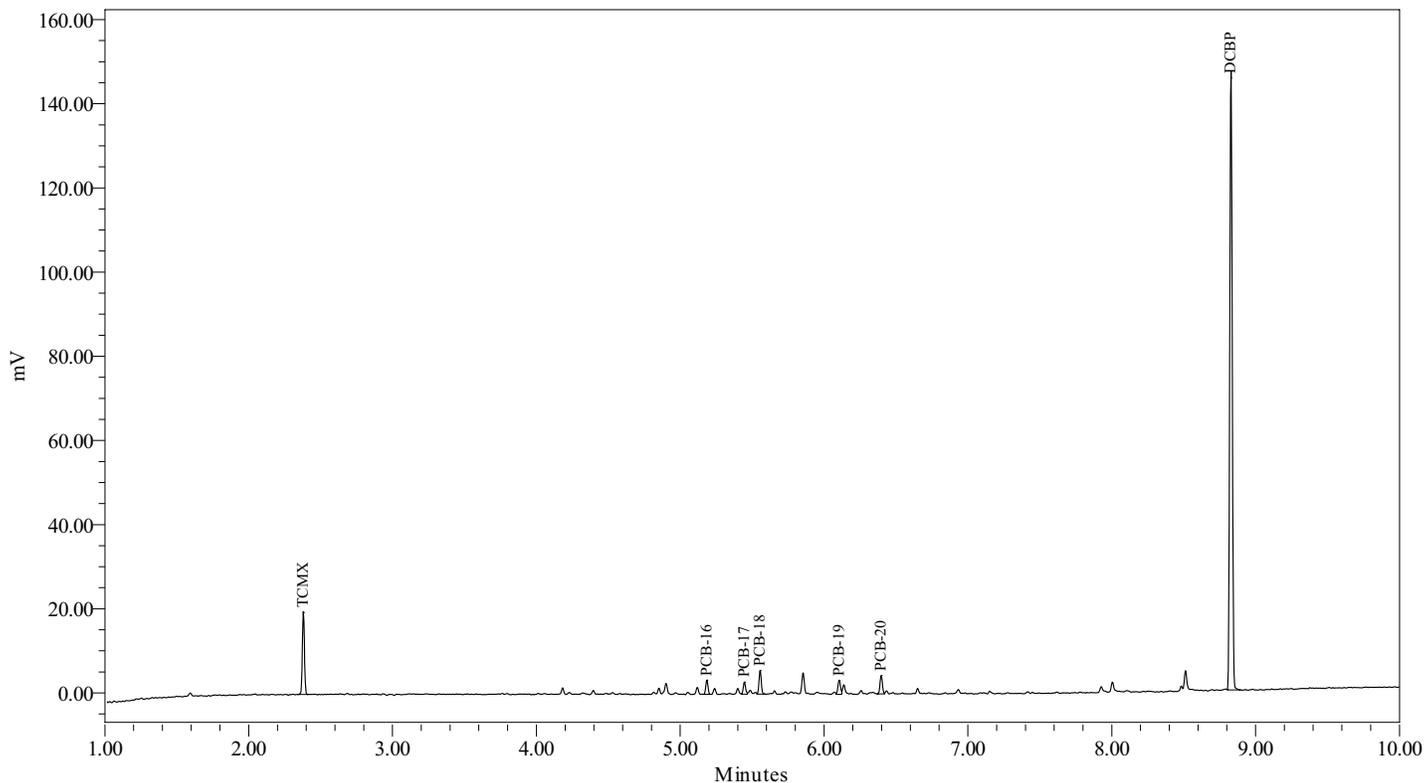
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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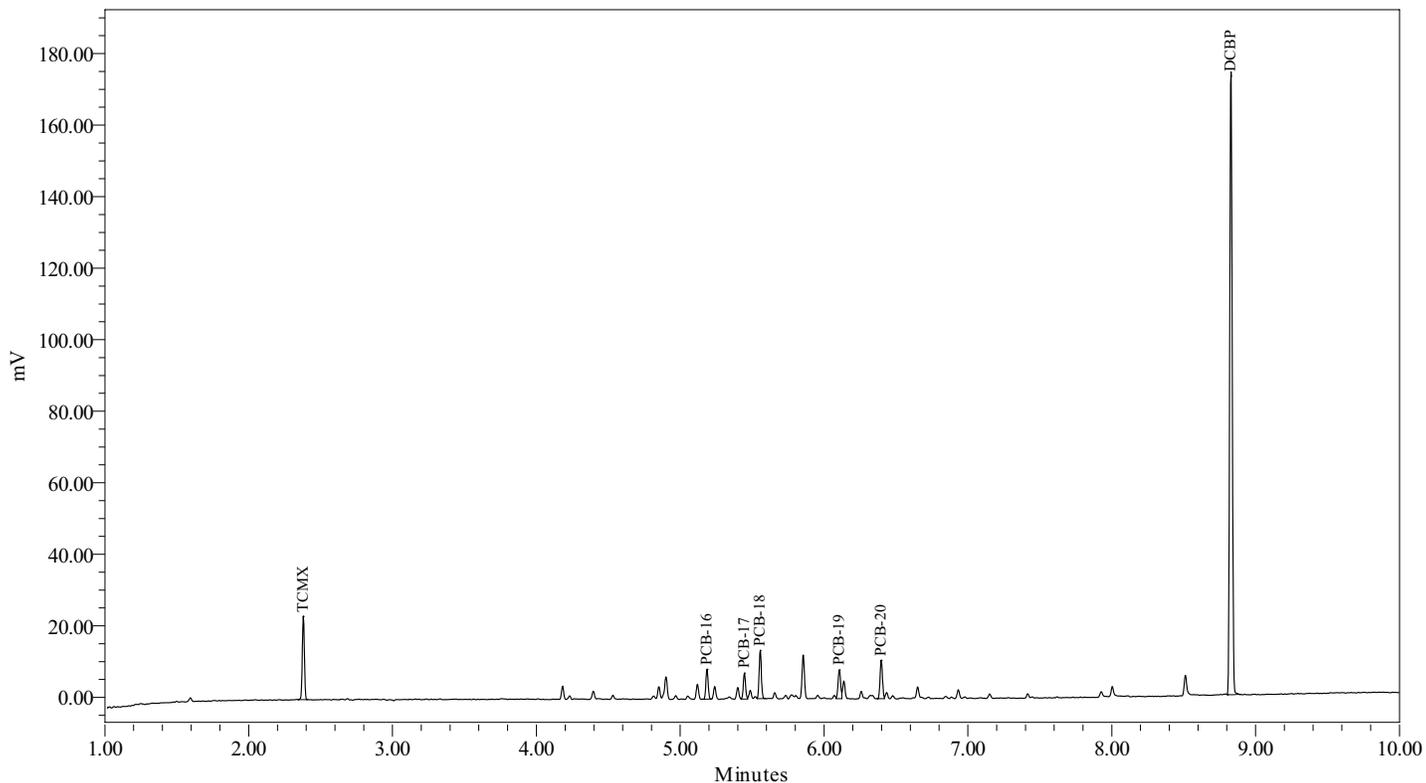
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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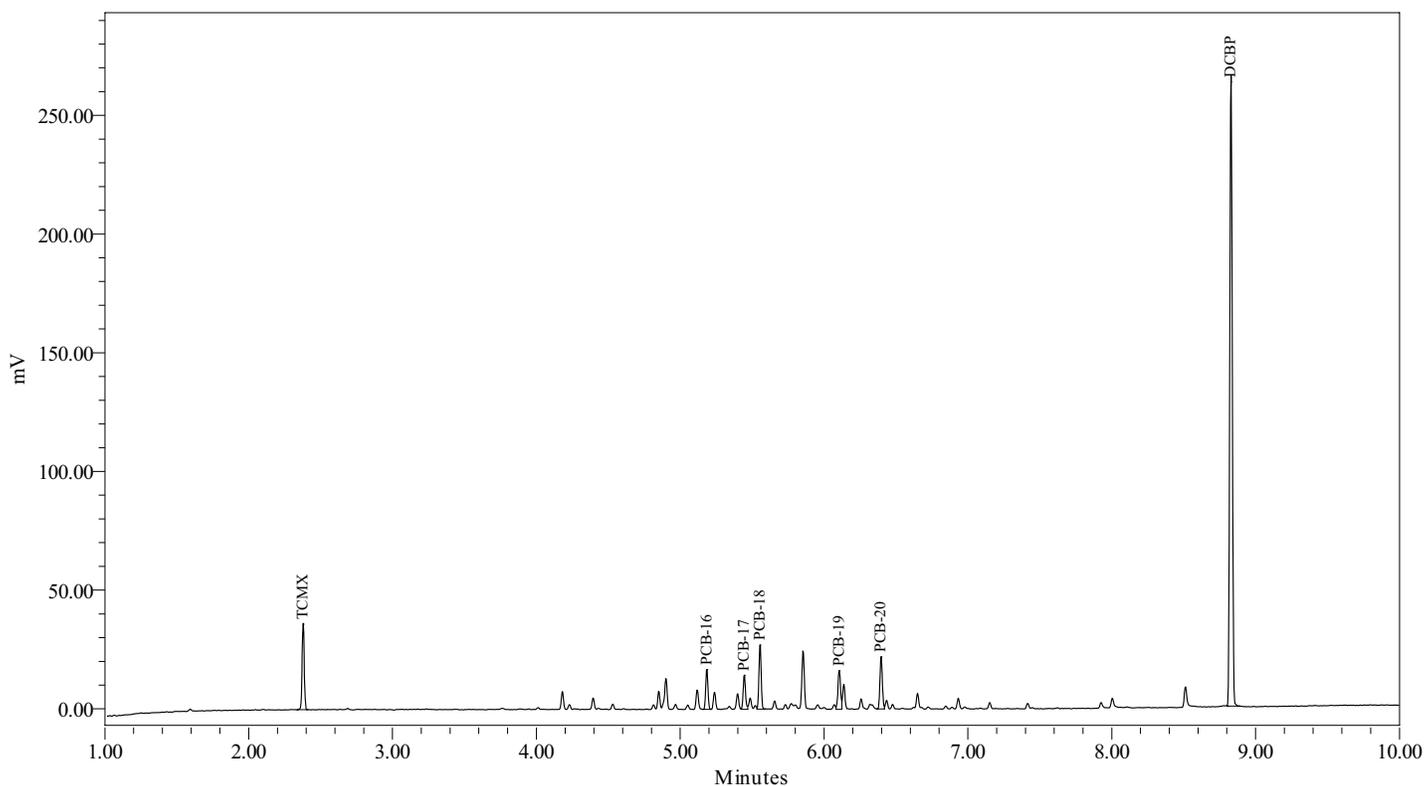
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

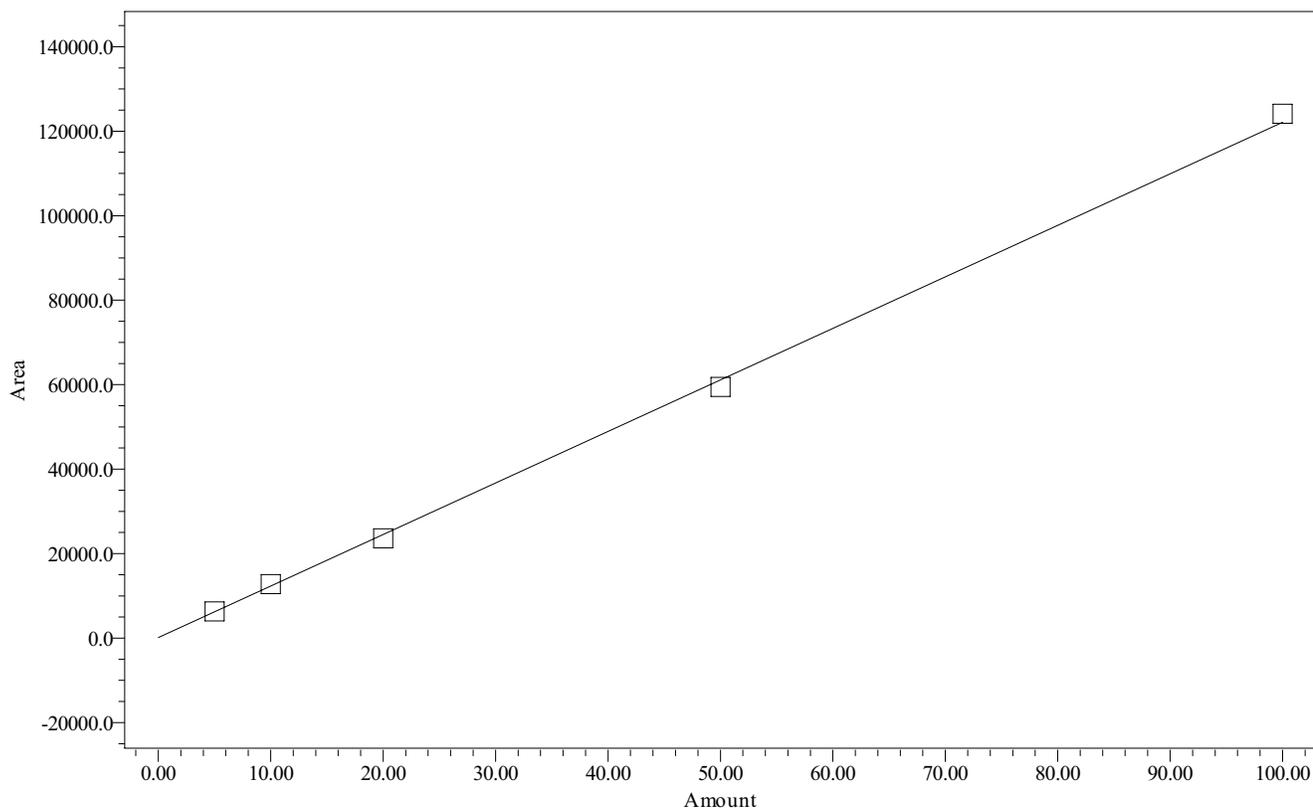
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260                    | Coefficient constant A:           | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

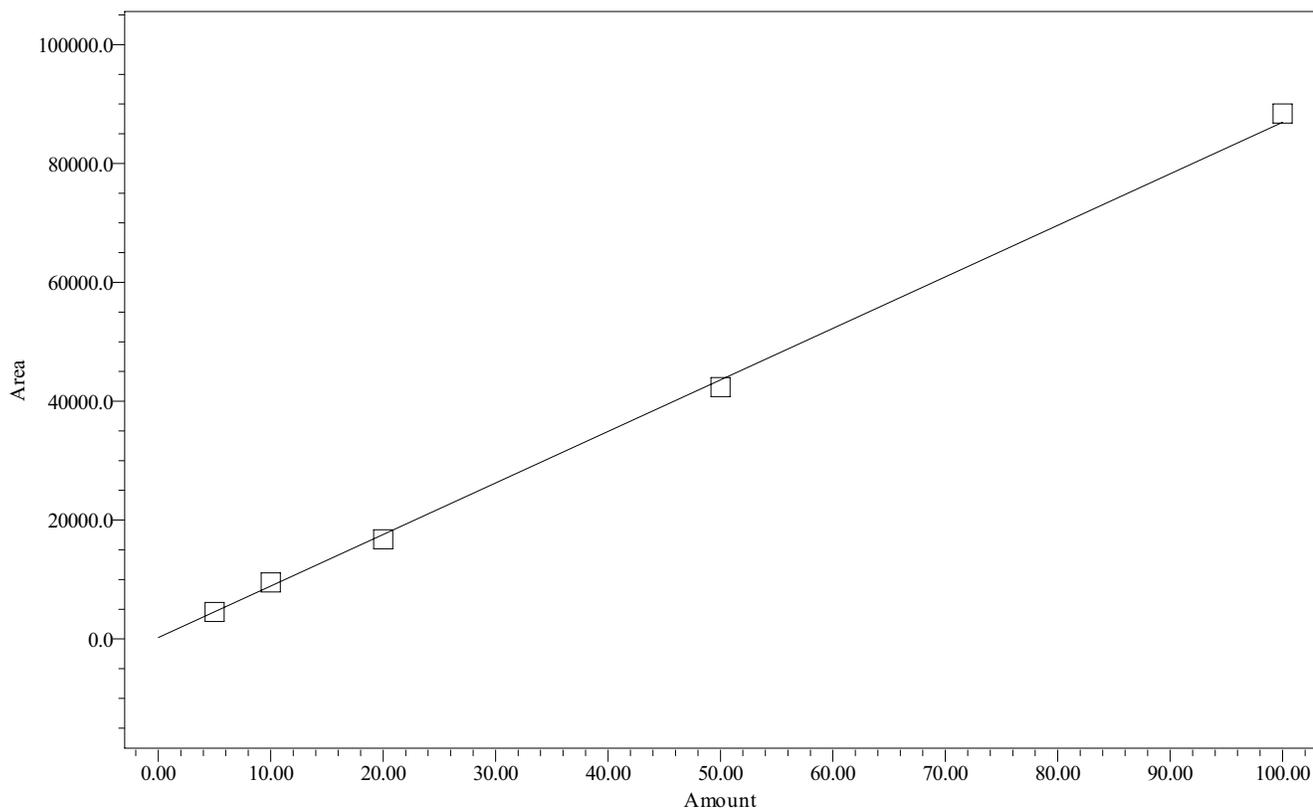
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

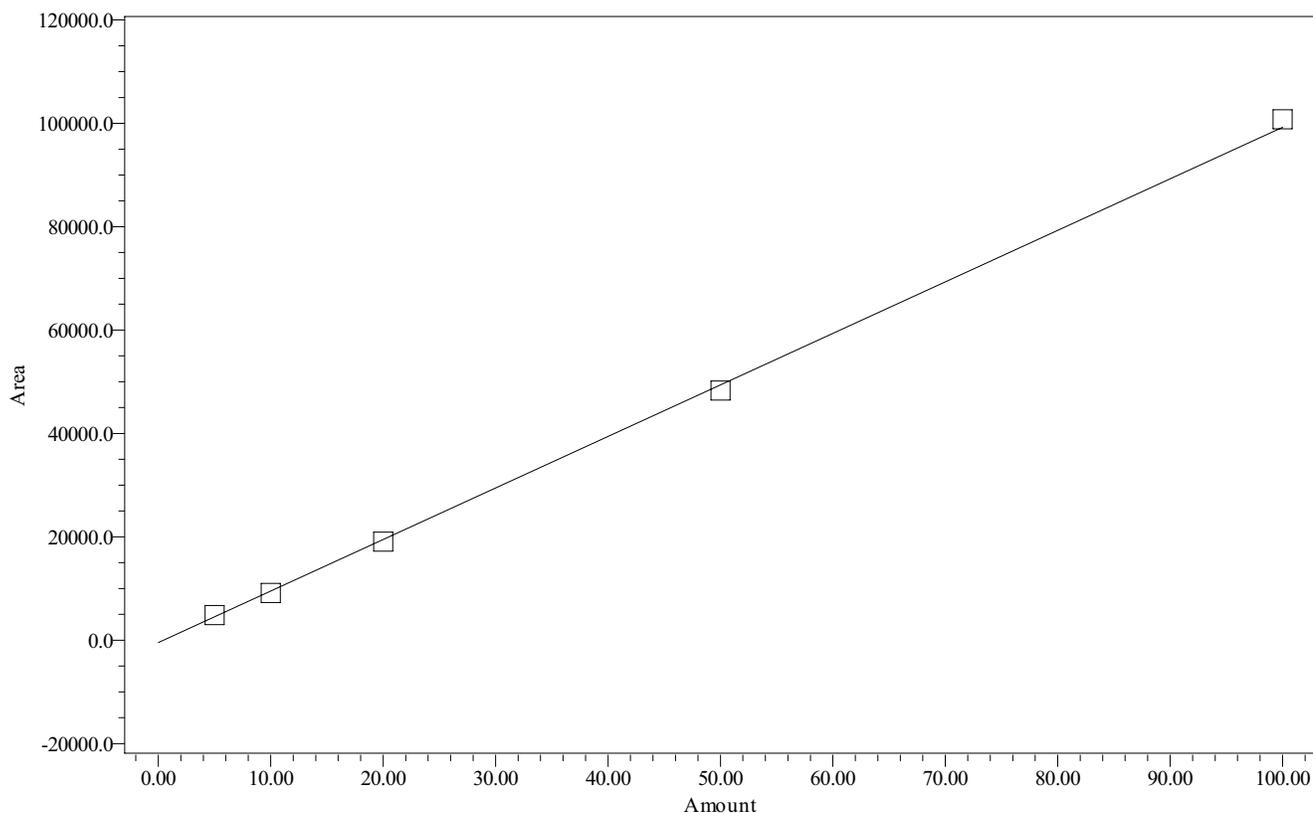
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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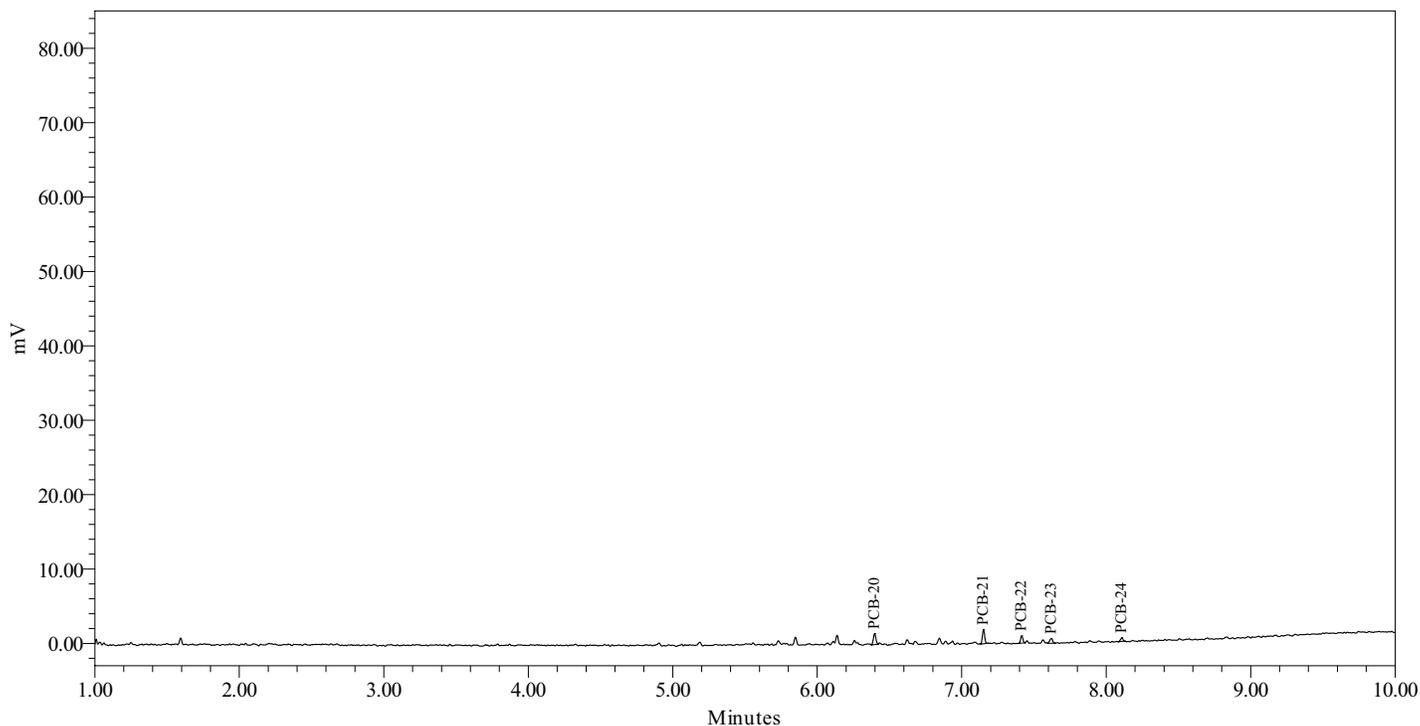
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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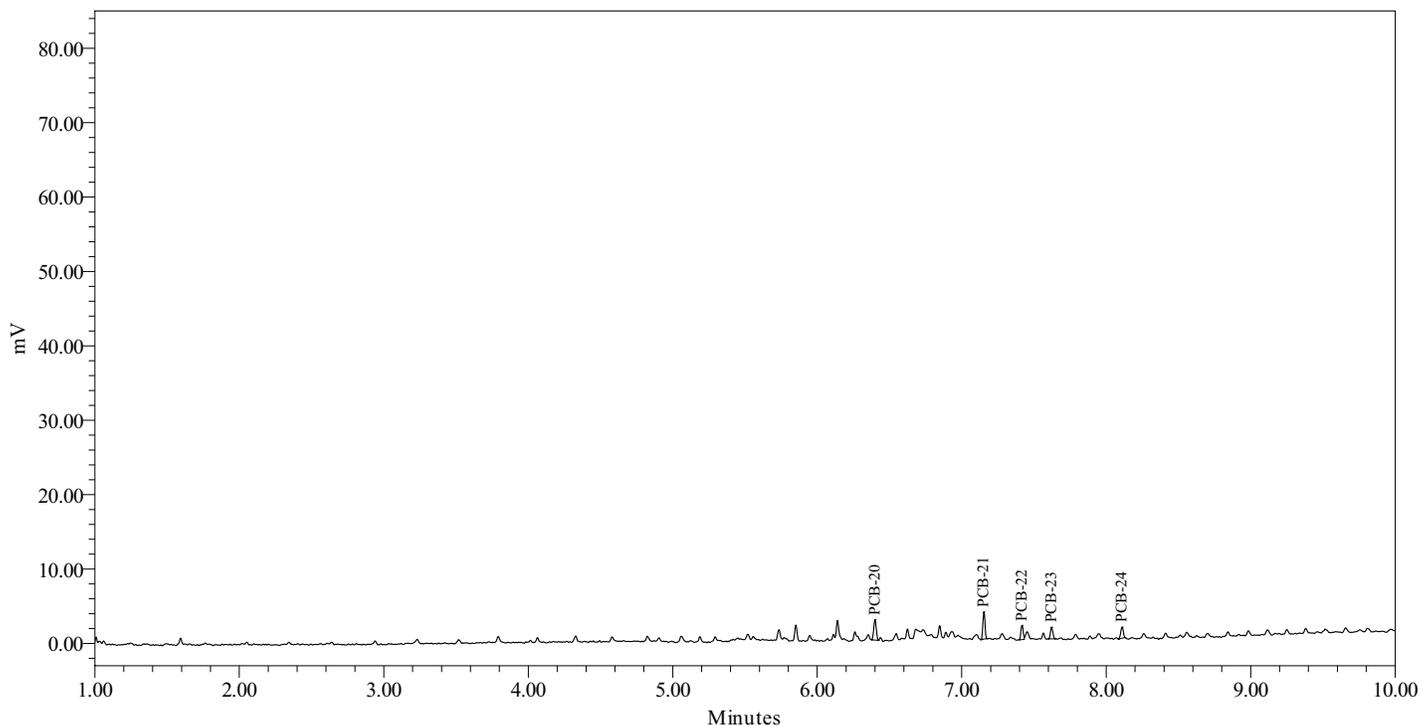
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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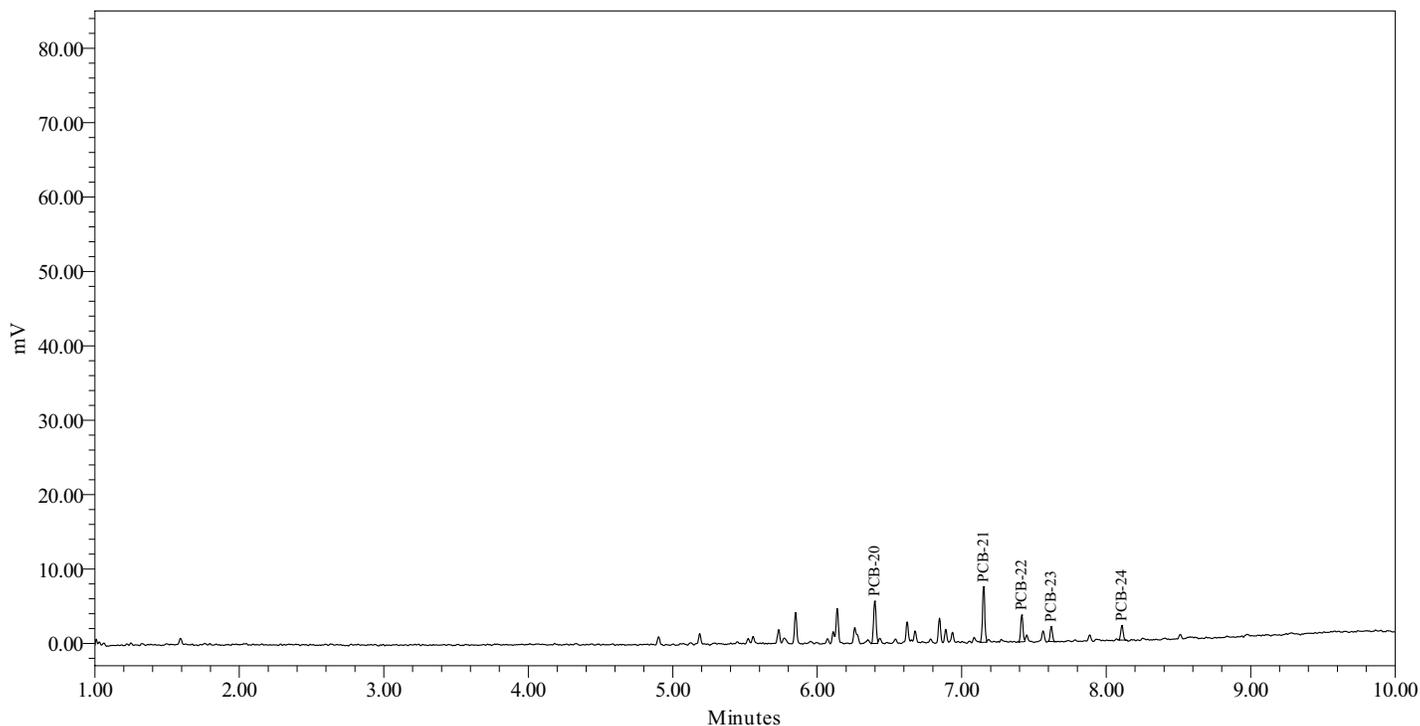
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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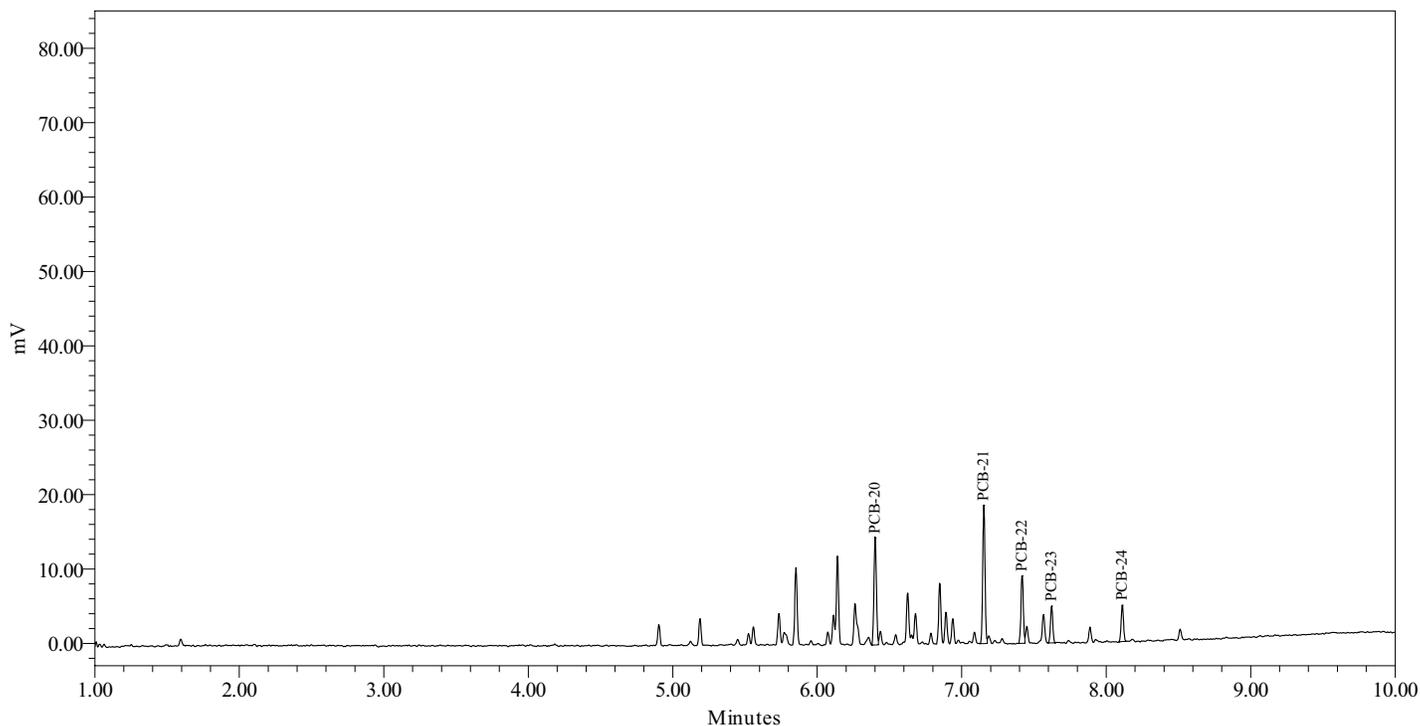
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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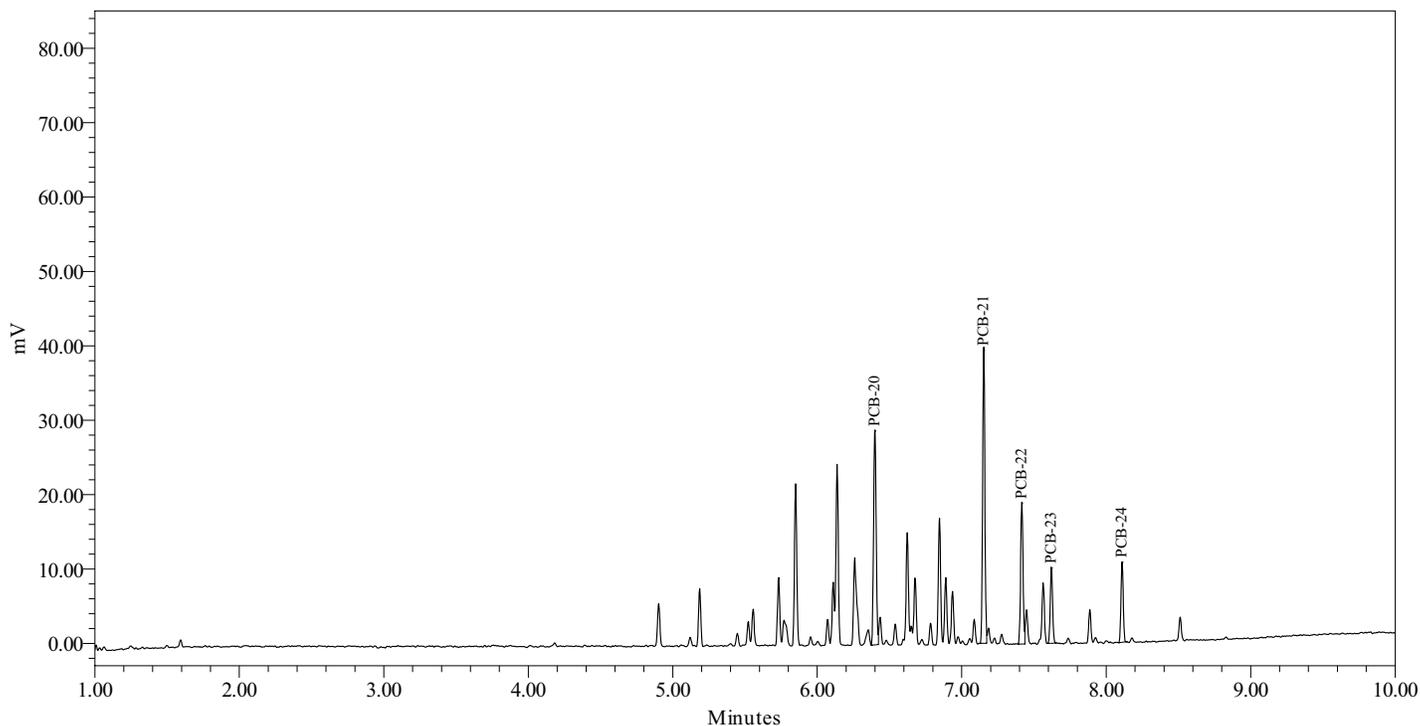
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

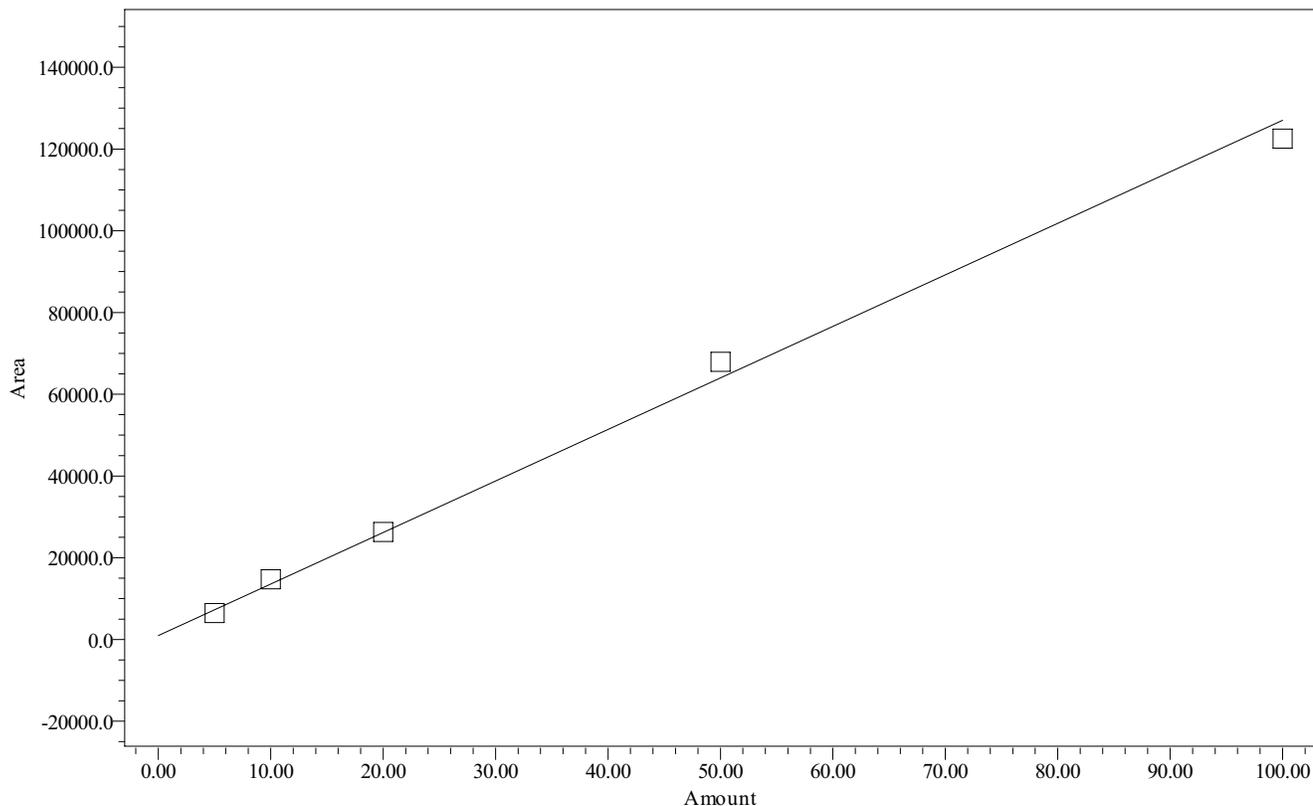
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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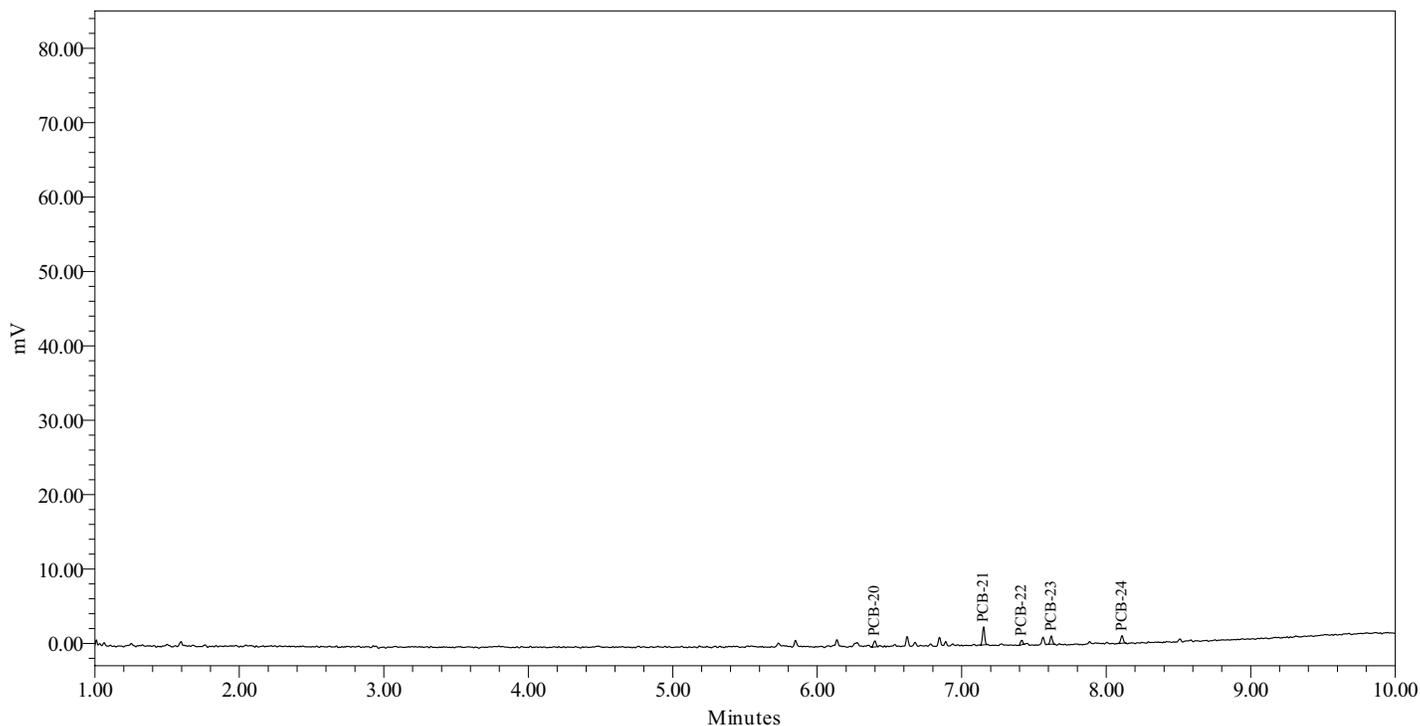
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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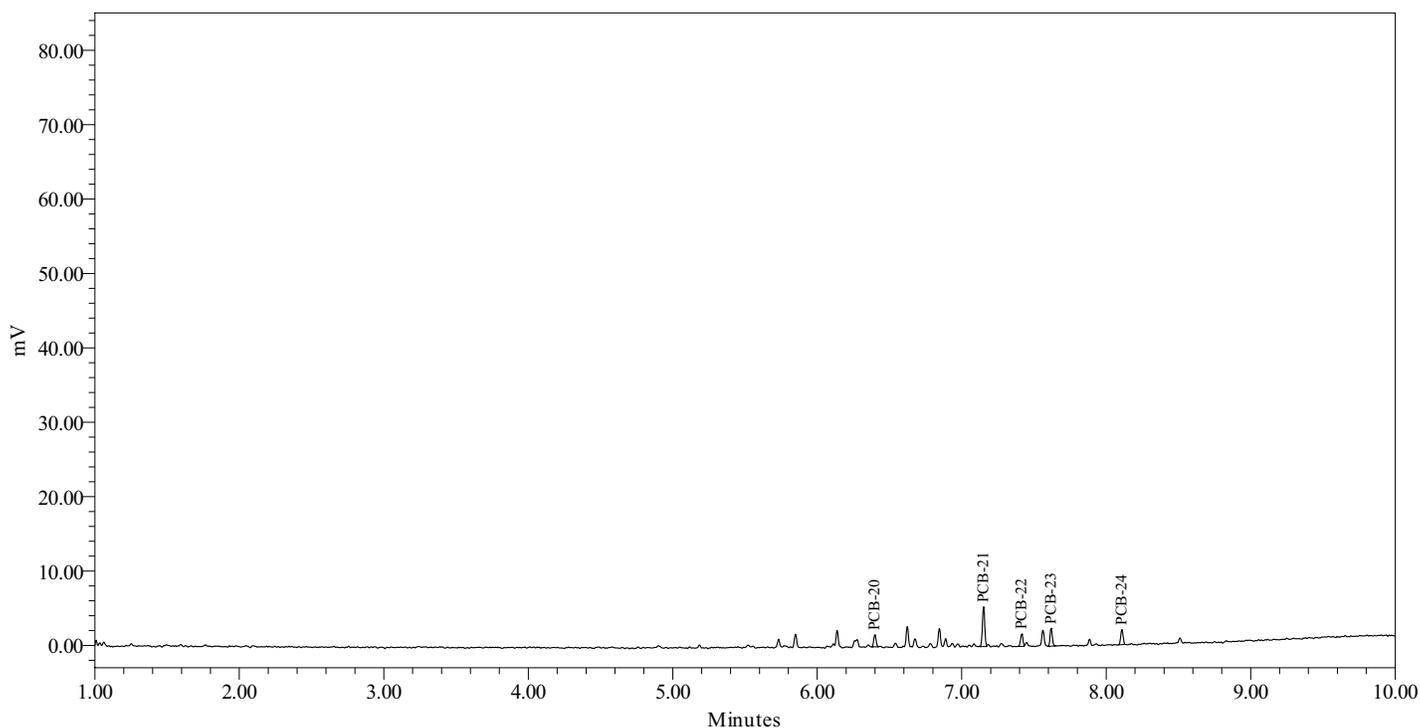
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 1780          |
| 2 | PCB-21    | 7.151          | bV               | 6127          |
| 3 | PCB-22    | 7.416          | bV               | 1857          |
| 4 | PCB-23    | 7.619          | bb               | 2674          |
| 5 | PCB-24    | 8.108          | bb               | 2303          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1780                |                      |
| 2 | A1254-17/18 | 1780                |                      |
| 3 | A1260       | 14741               |                      |
| 4 | A1260-20    | 12961               |                      |
| 5 | A1260-23/24 | 9764                |                      |
| 6 | A1262       | 14741               | 10.000               |
| 7 | A1268       | 4976                |                      |



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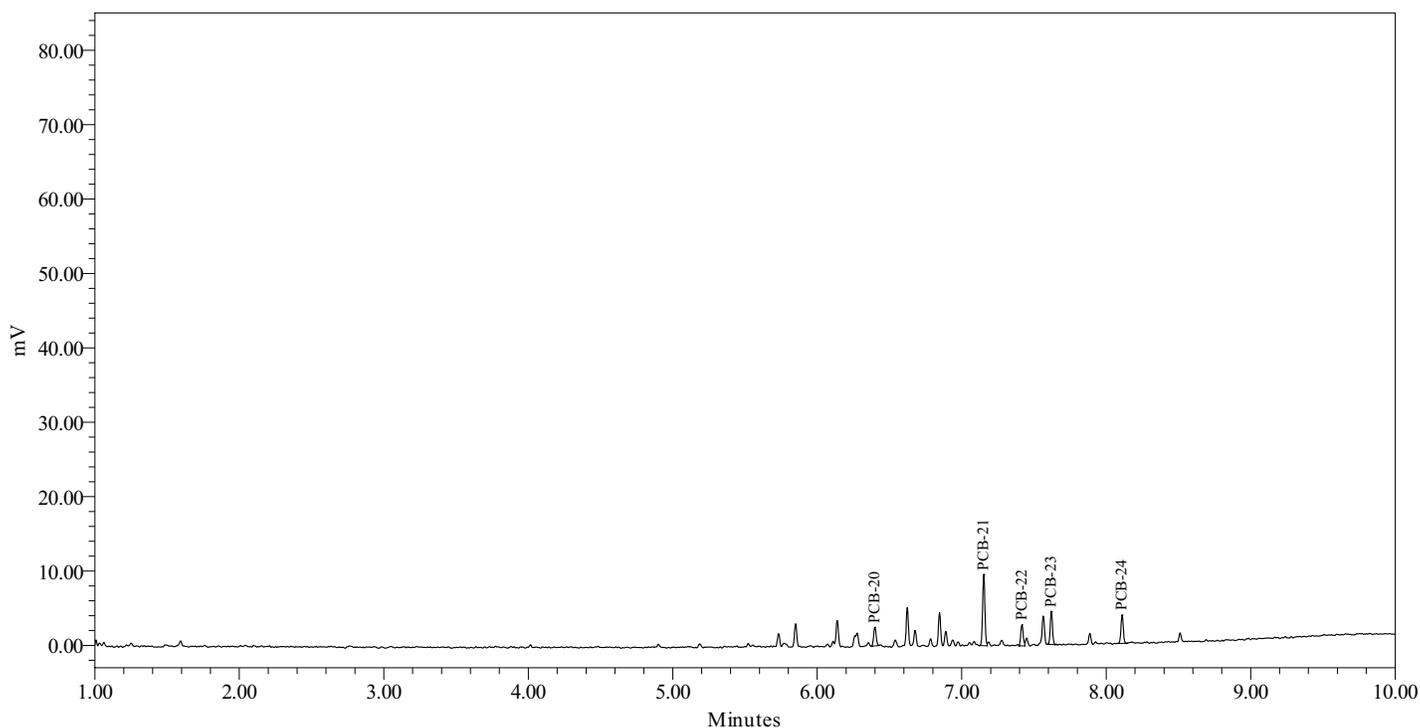
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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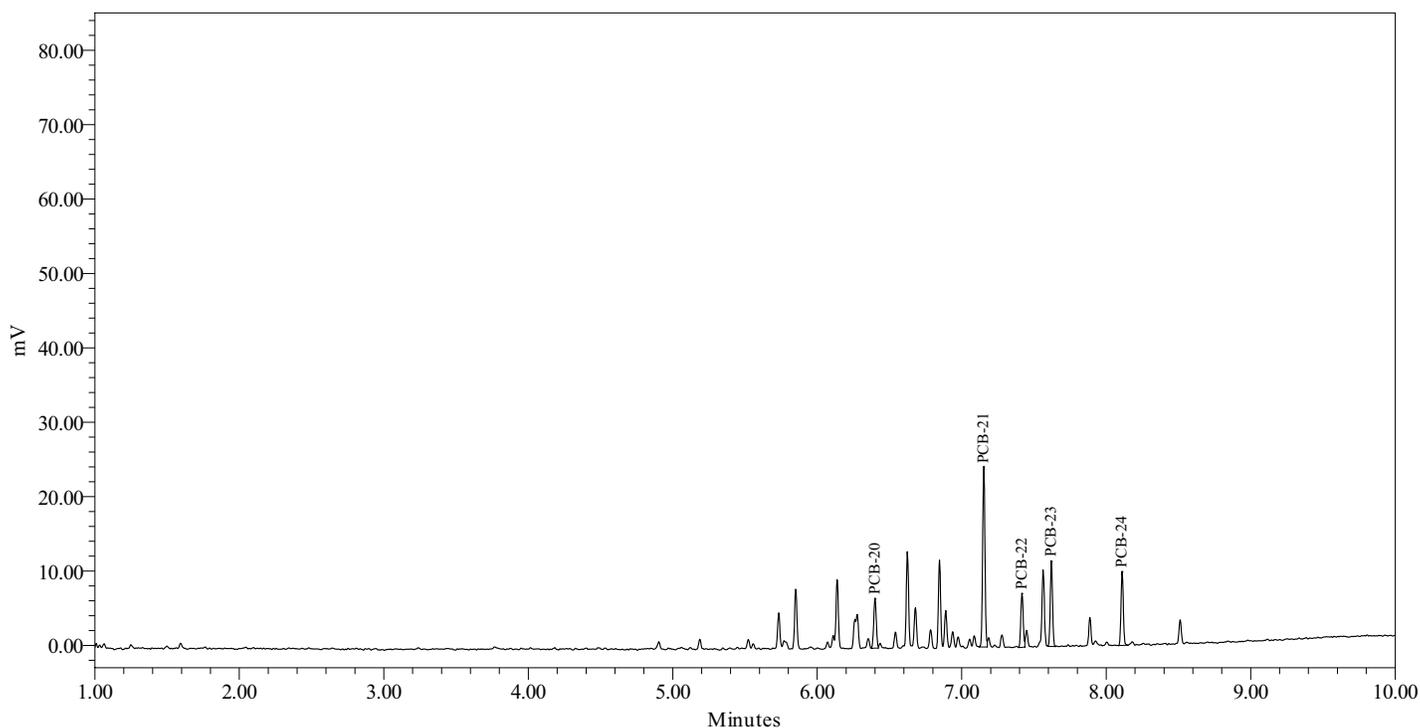
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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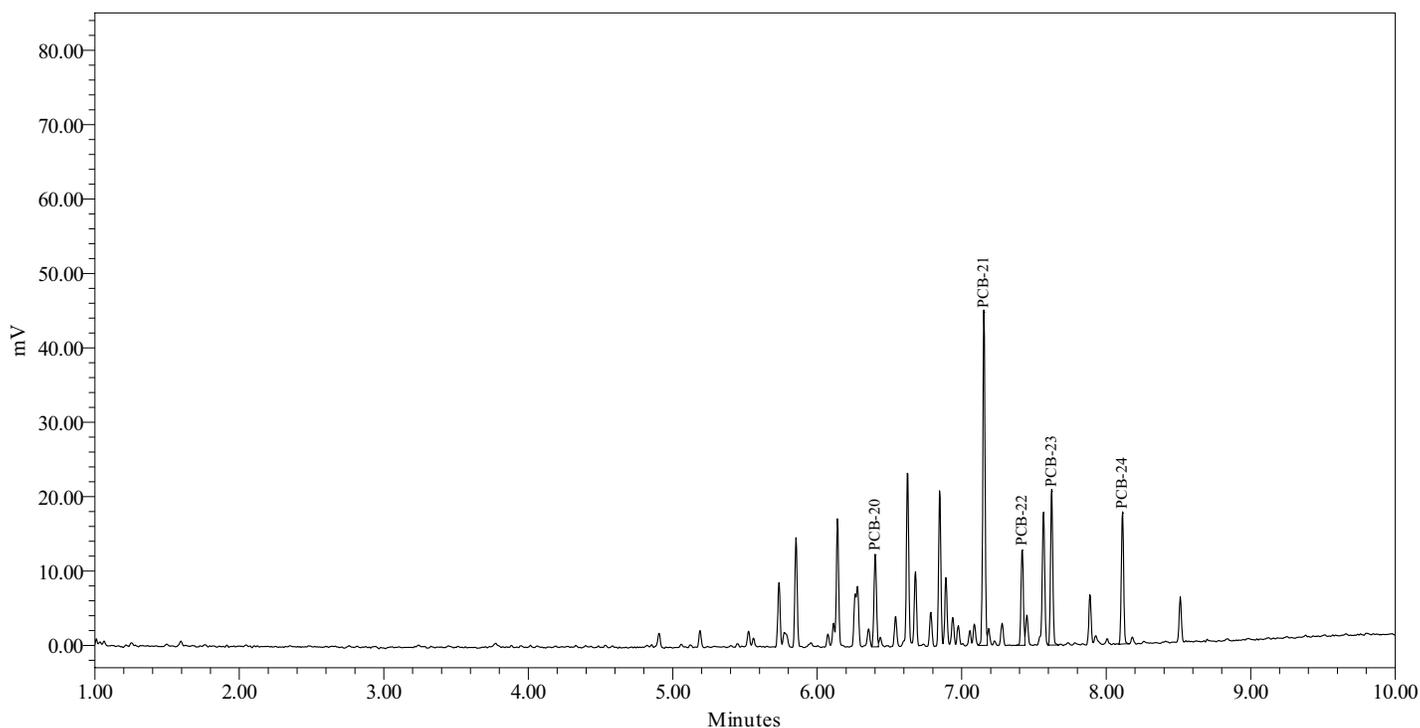
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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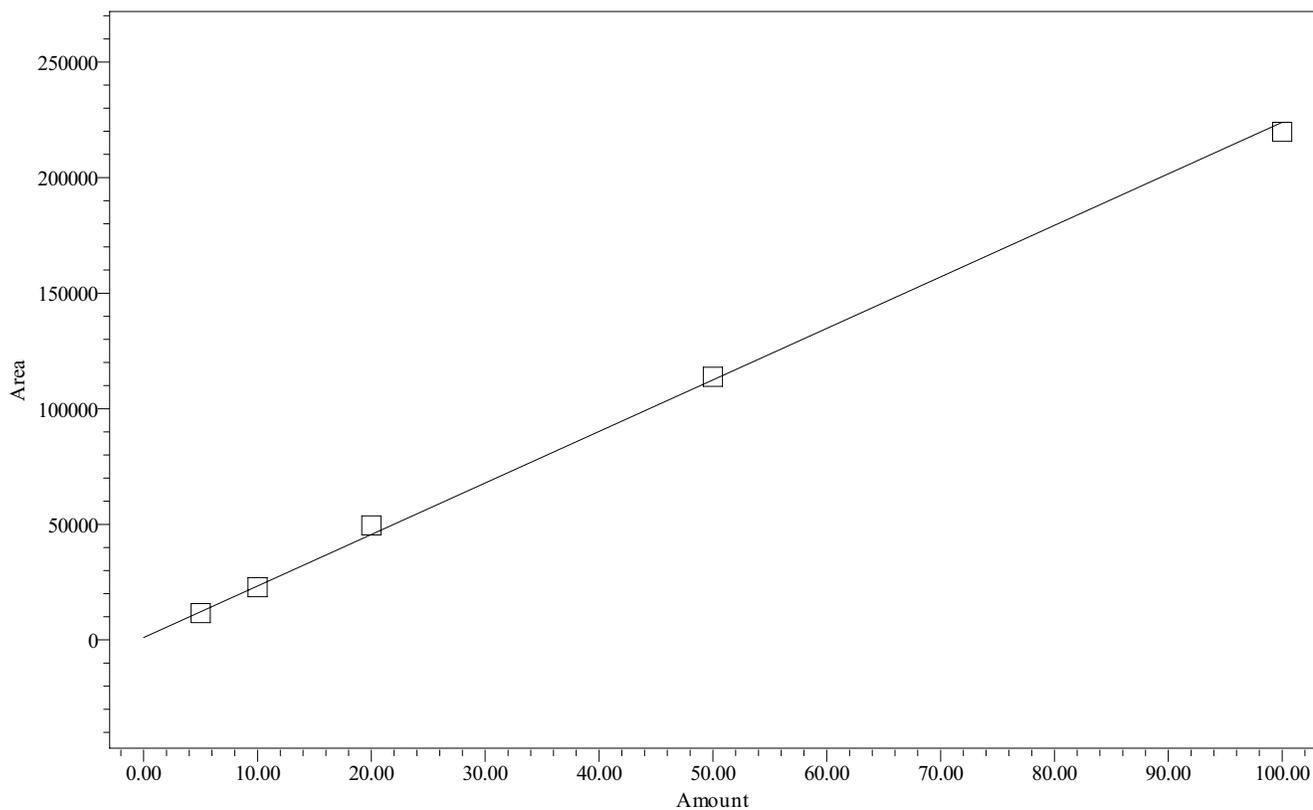
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

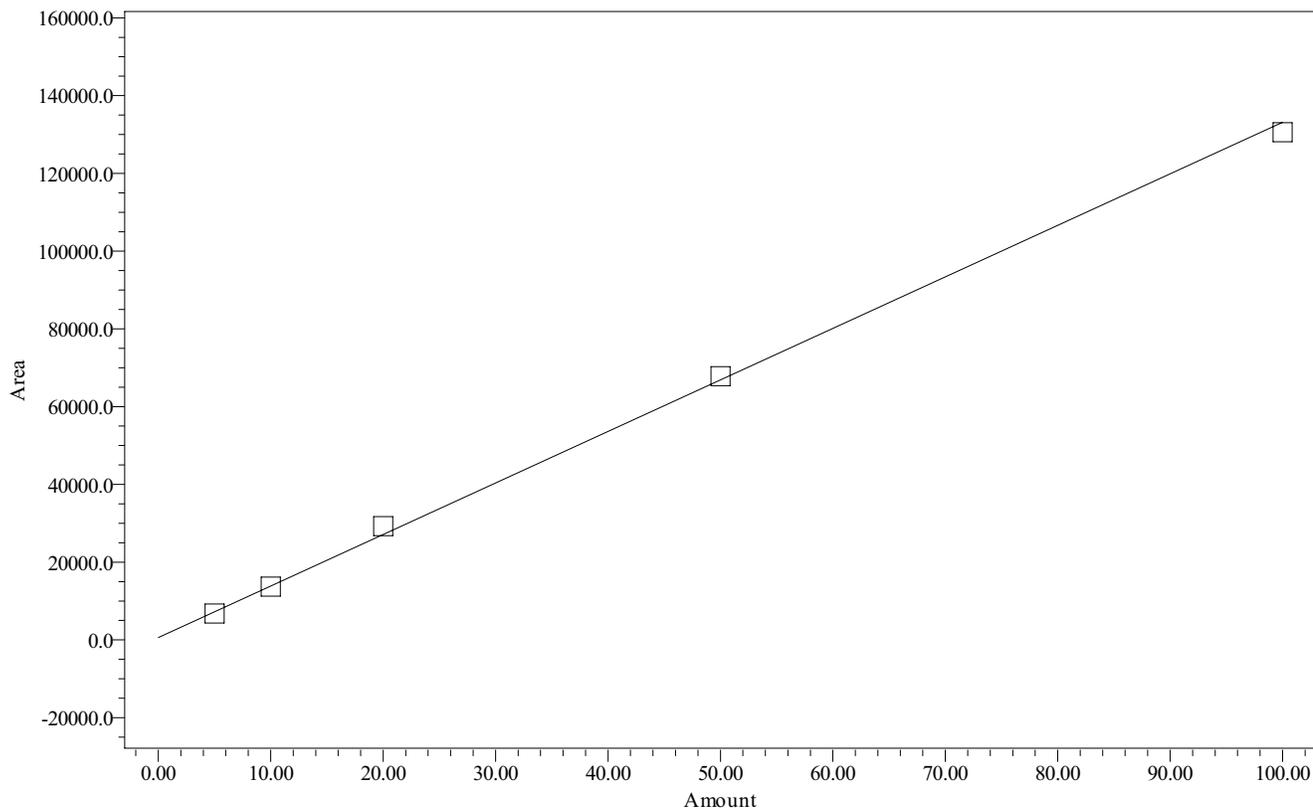
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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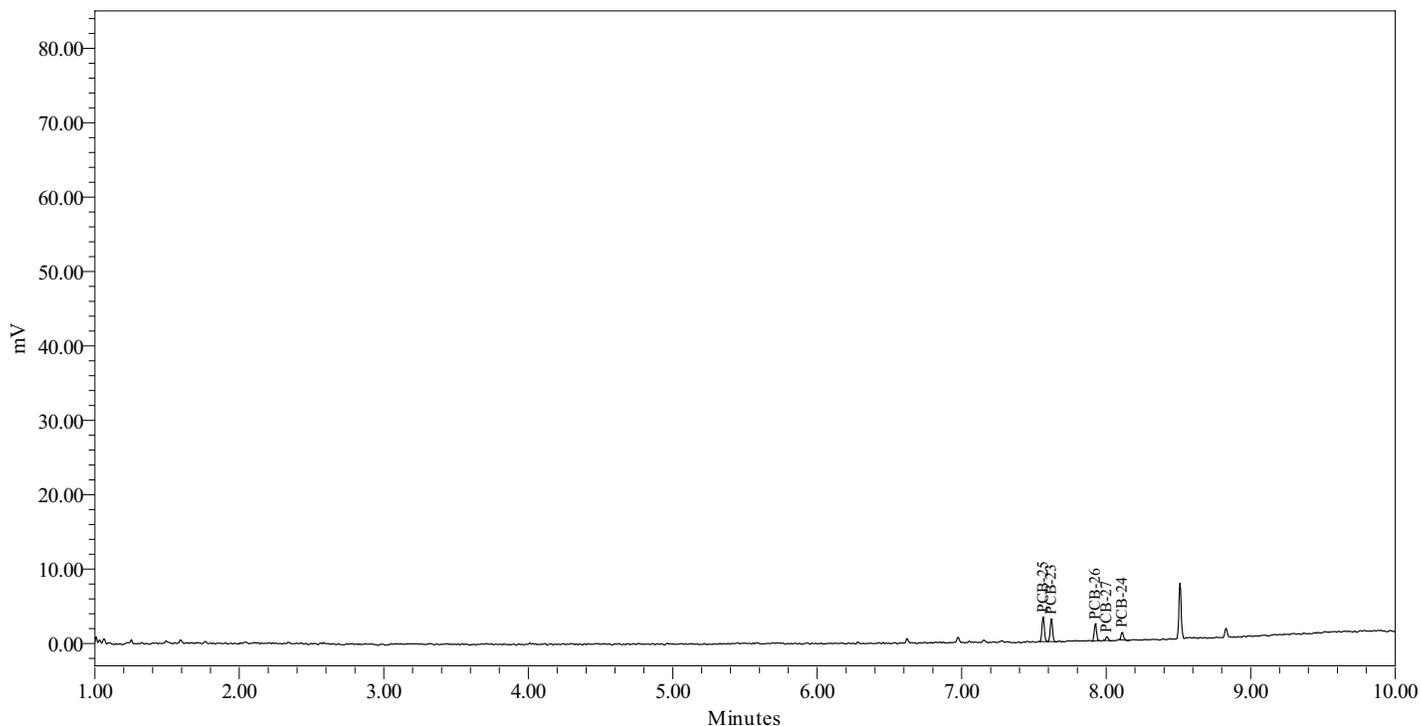
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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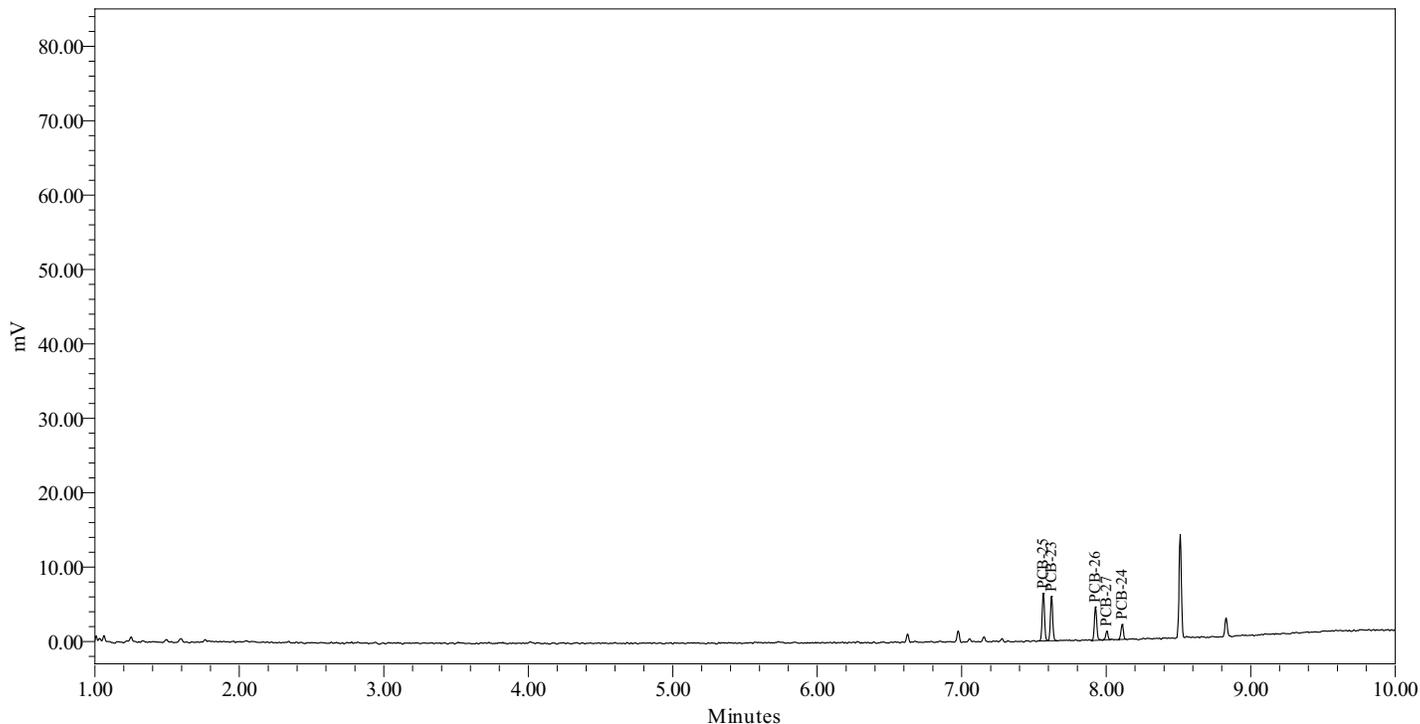
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.565          | bV               | 7178          |
| 2 | PCB-23    | 7.622          | Vb               | 6734          |
| 3 | PCB-26    | 7.926          | bB               | 5273          |
| 4 | PCB-27    | 8.004          | Bb               | 1257          |
| 5 | PCB-24    | 8.111          | bb               | 2332          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 9066                |                      |
| 2 | A1260-20    | 9066                |                      |
| 3 | A1262       | 9066                |                      |
| 4 | A1268       | 22774               | 10.000               |
| 5 | A1268-23/24 | 13708               | 10.000               |



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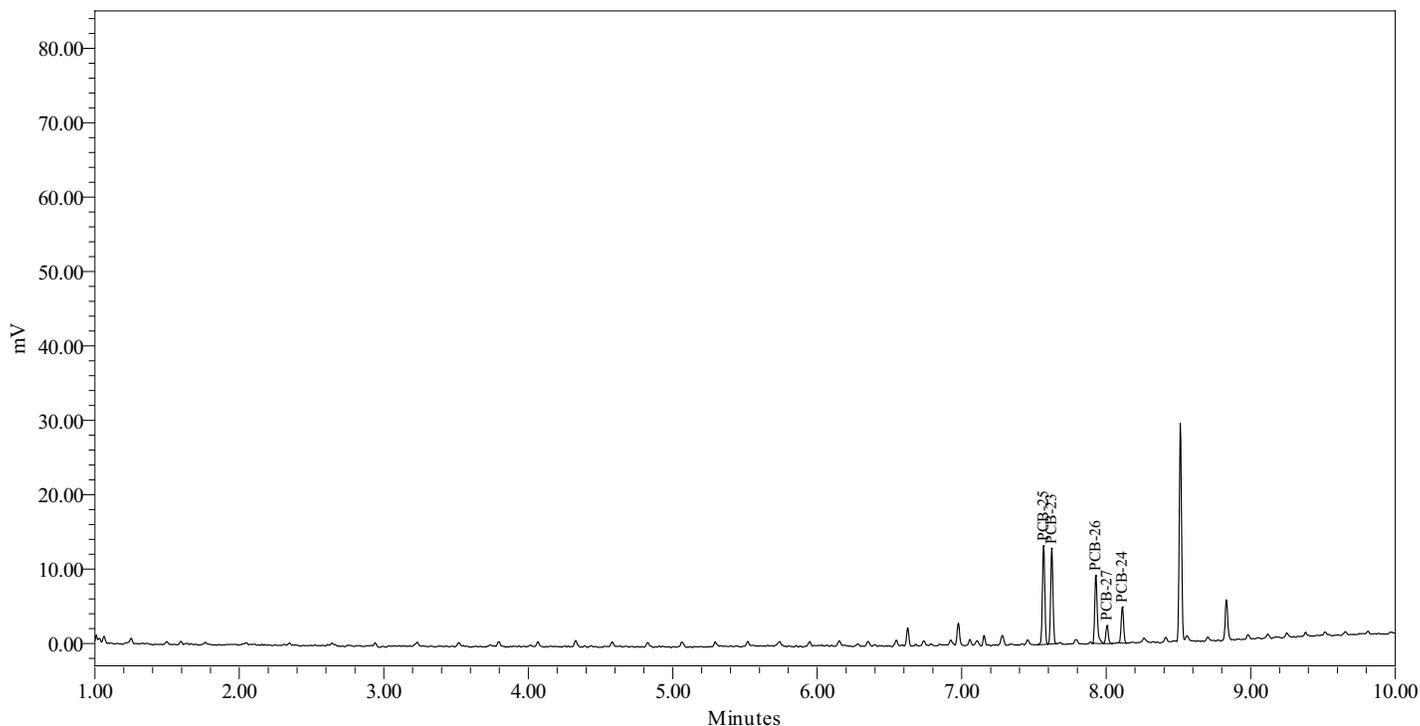
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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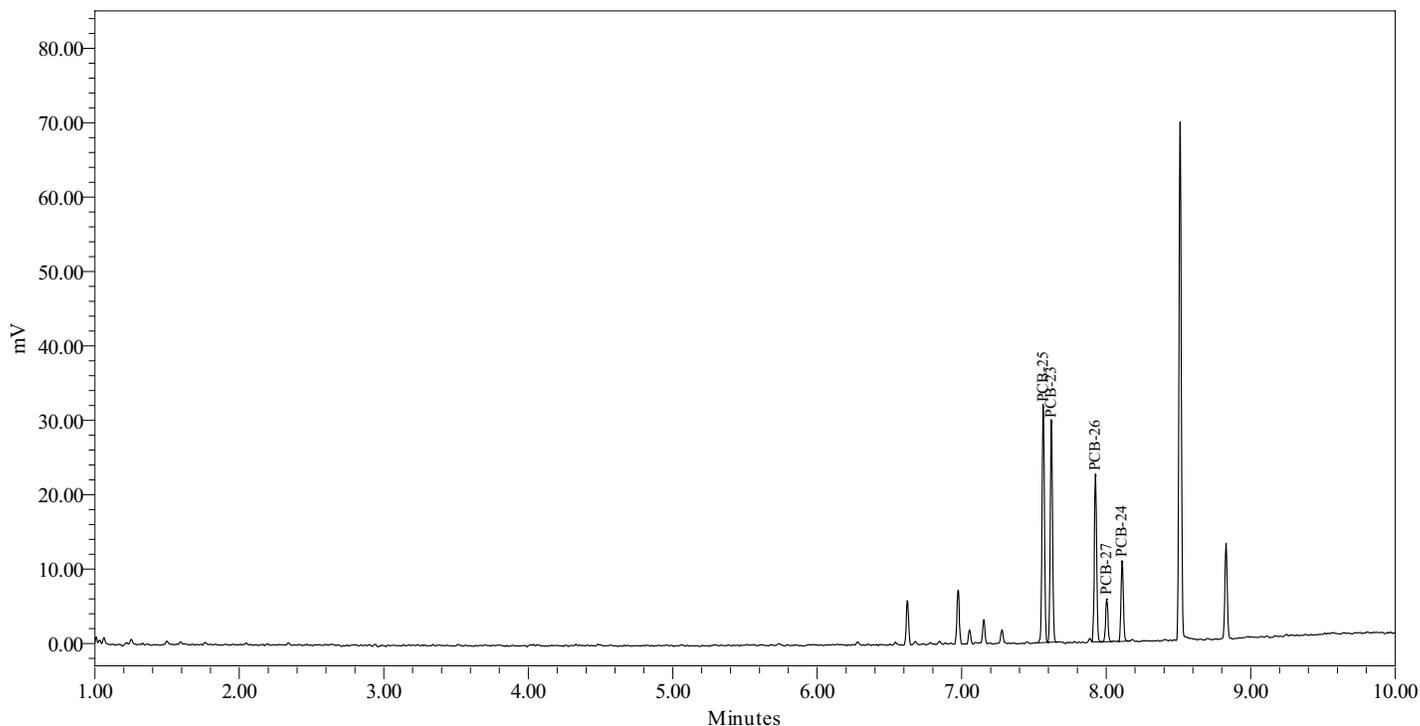
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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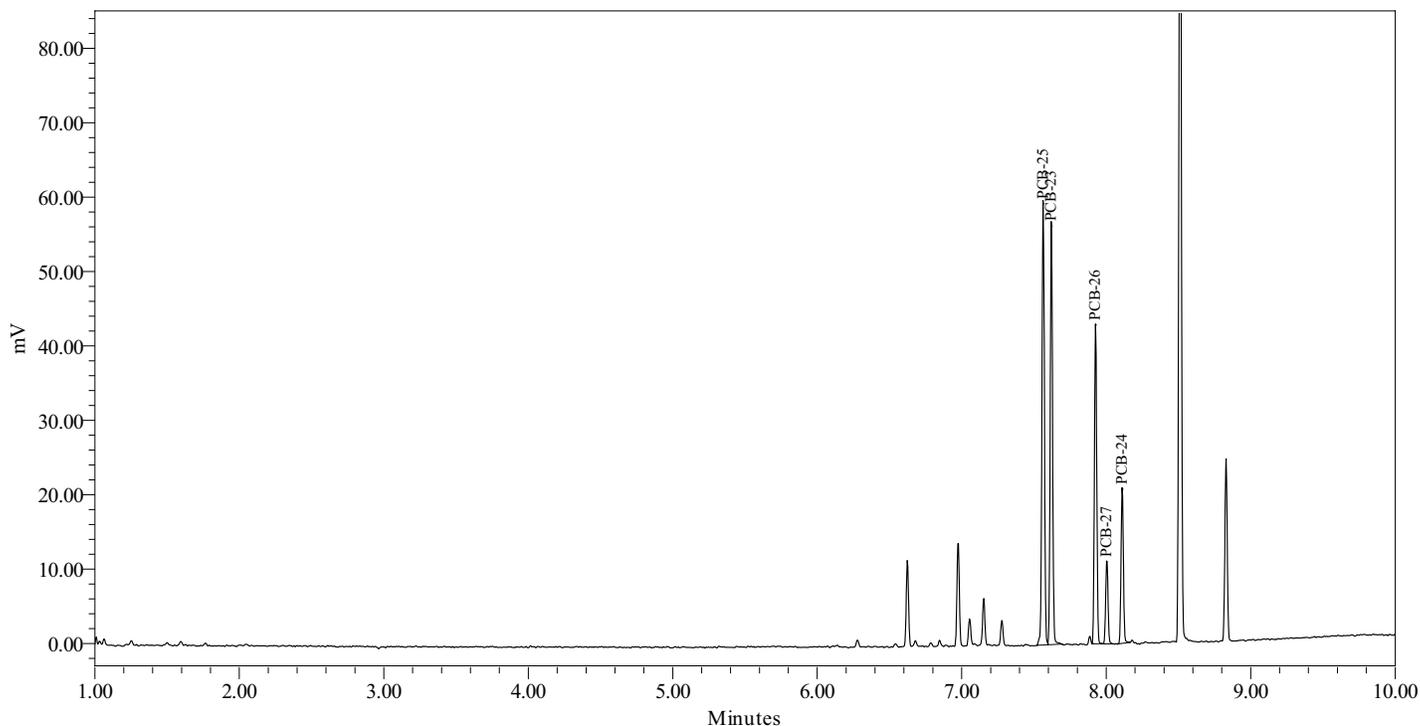
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060056

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1232 | GC28F-1632-30 | CS320603A     | CCV        | 48.4                | 50                 | -3.14              |   | 06/03/2015 18:02:18  |
| Aroclor 1242 | GC28F-1632-41 | CS420603A     | CCV        | 52.8                | 50                 | 5.65               |   | 06/03/2015 20:35:14  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060056

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SGD NO: 15060056

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060056

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1232 | GC28F-1632-30 | CS320603A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320603A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS320603A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS320603A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320603A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1632-41 | CS420603A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420603A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420603A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420603A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420603A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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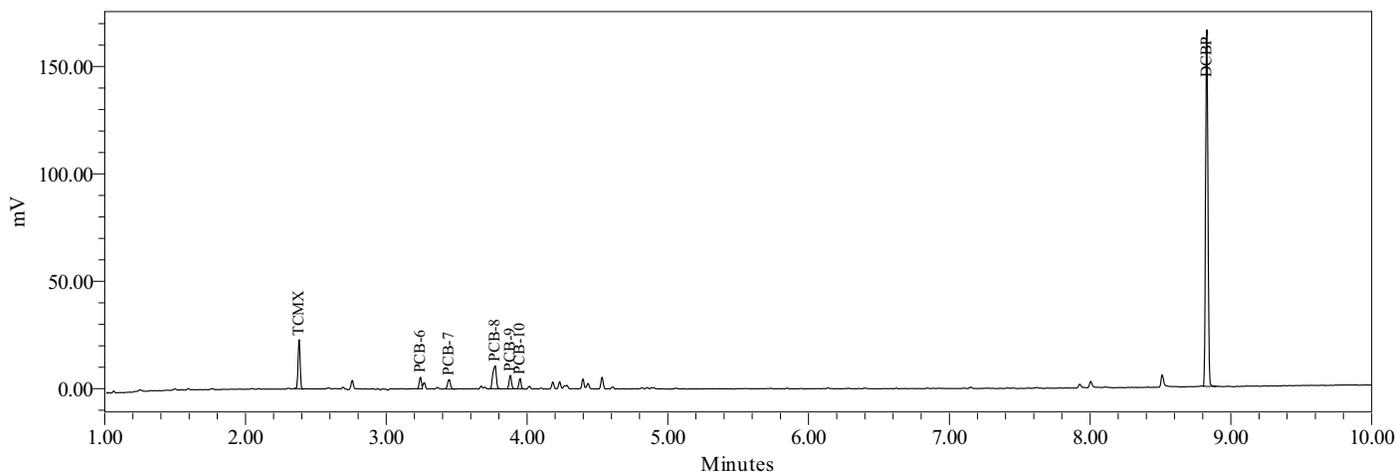
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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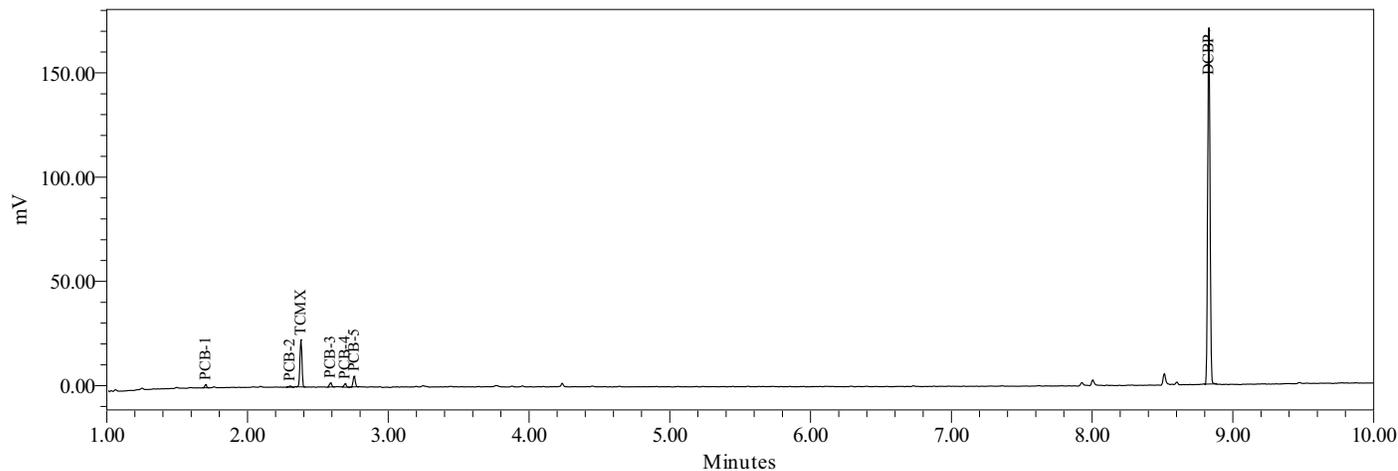
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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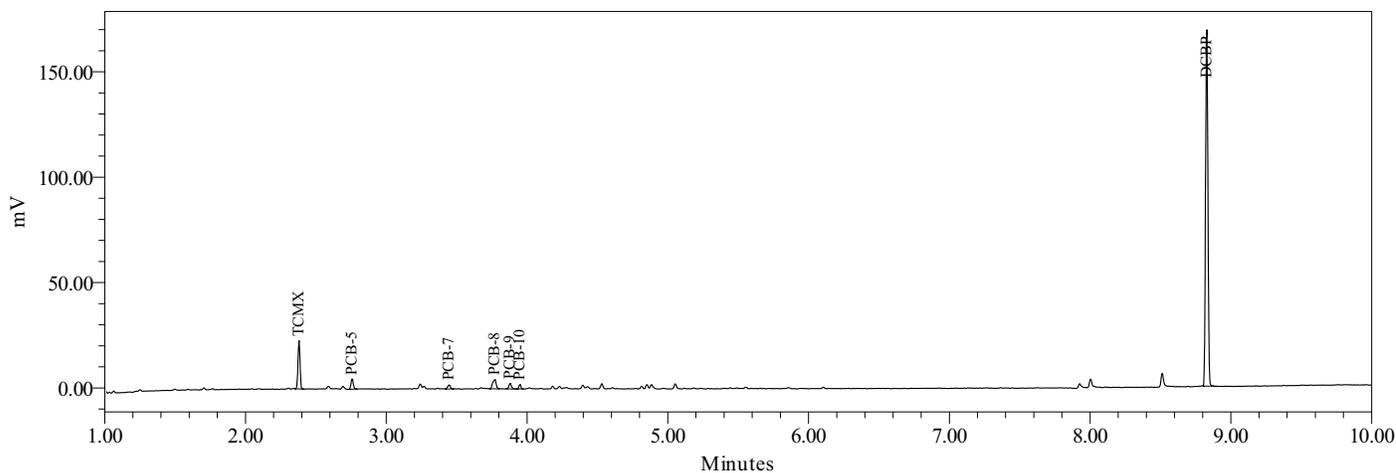
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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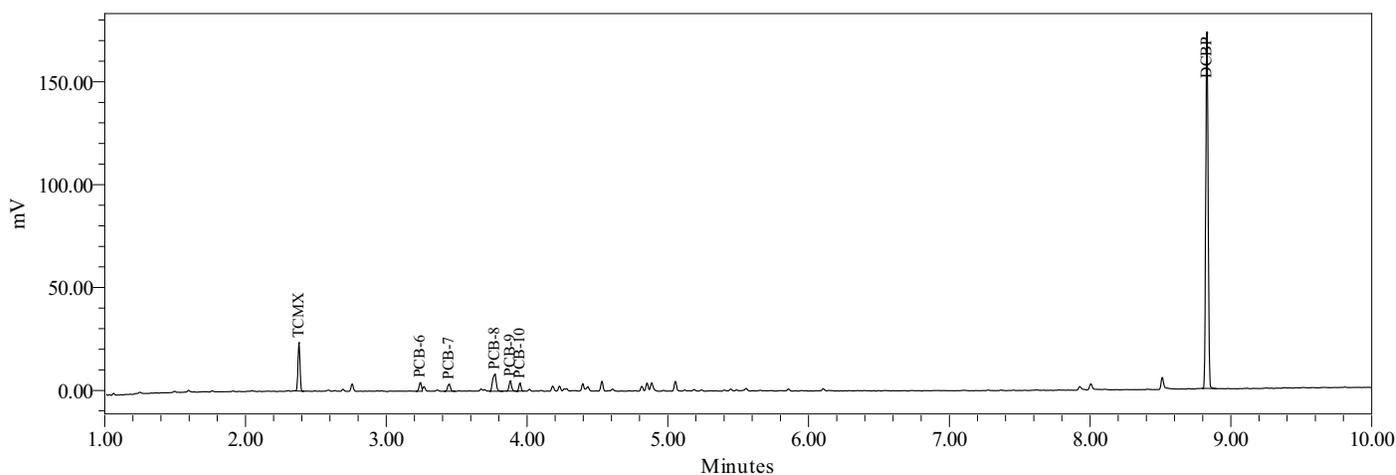
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| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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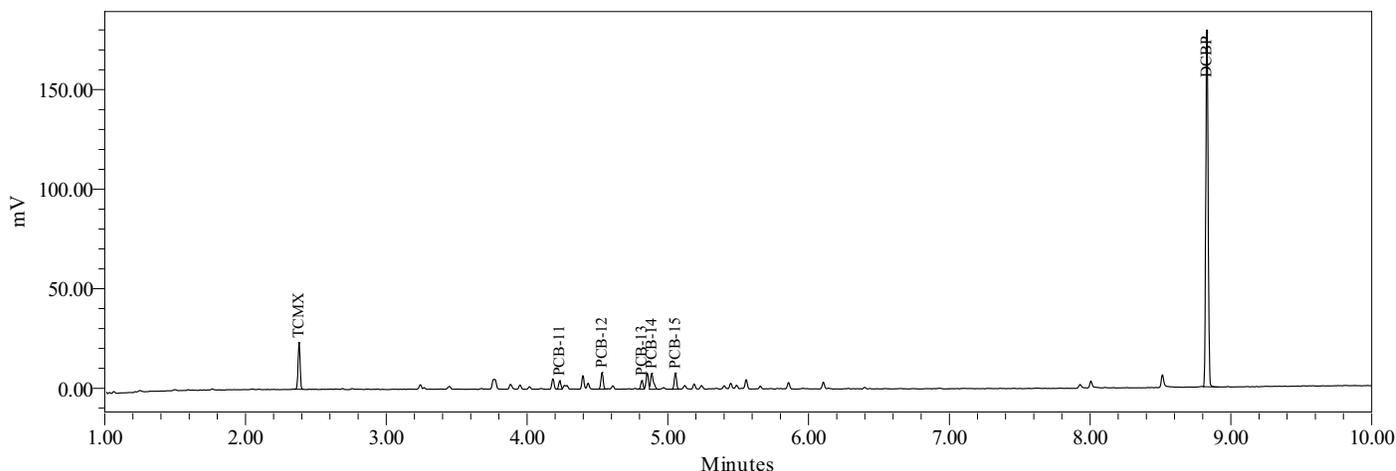
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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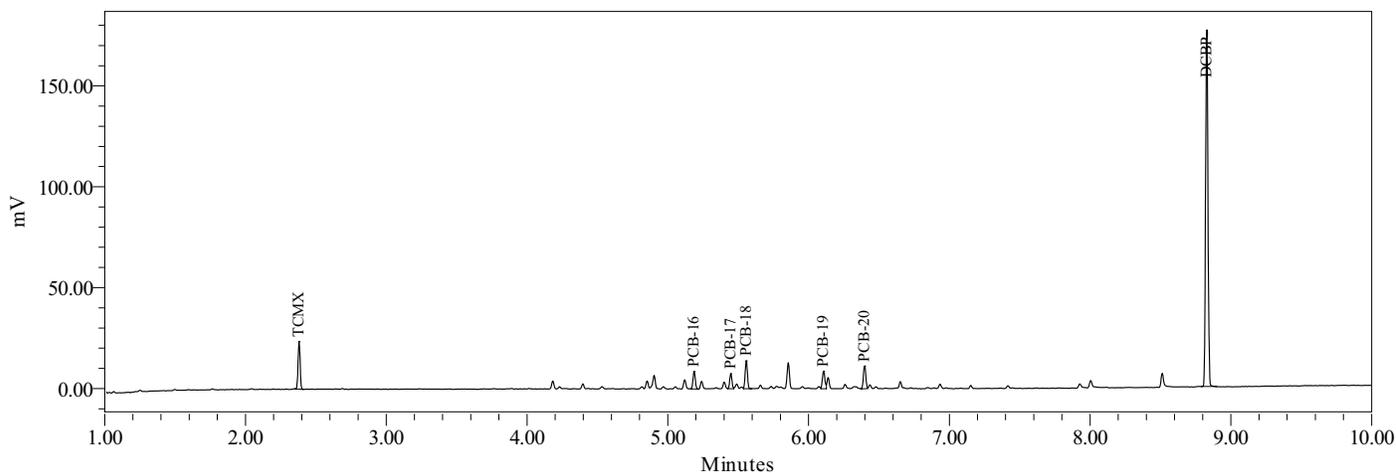
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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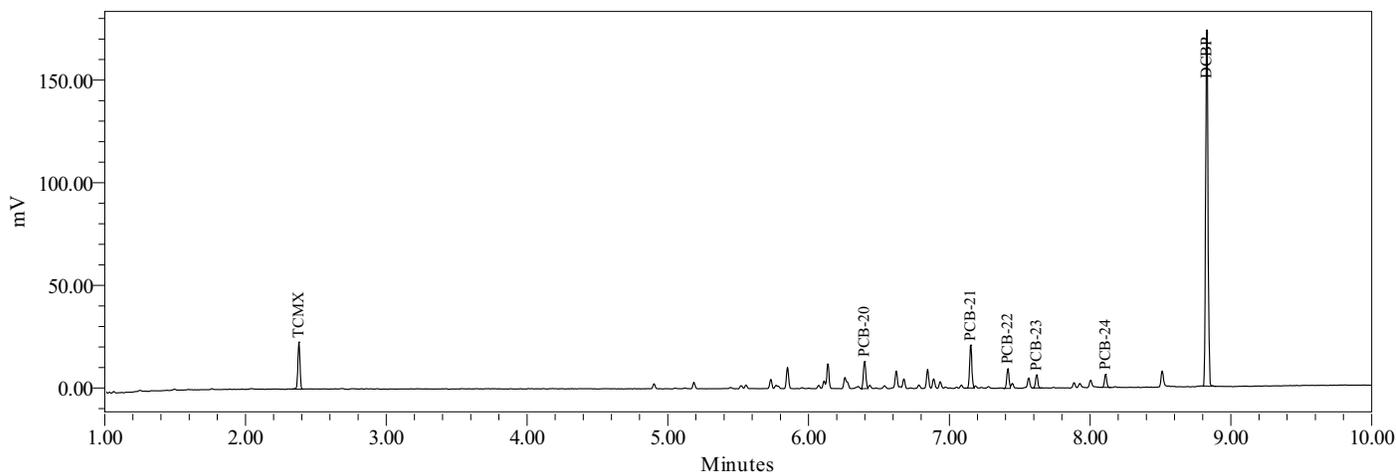
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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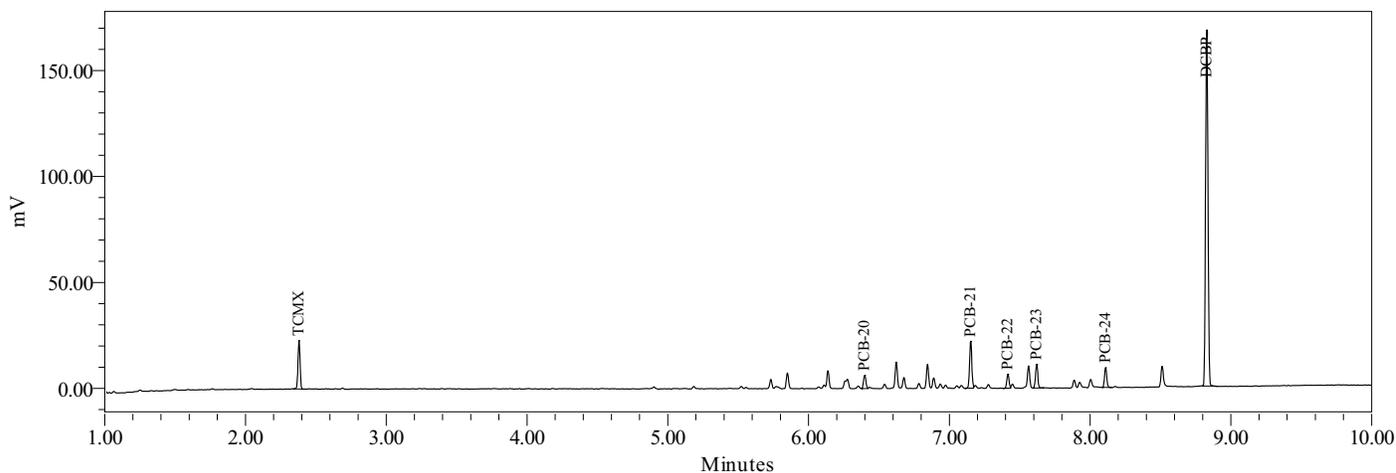
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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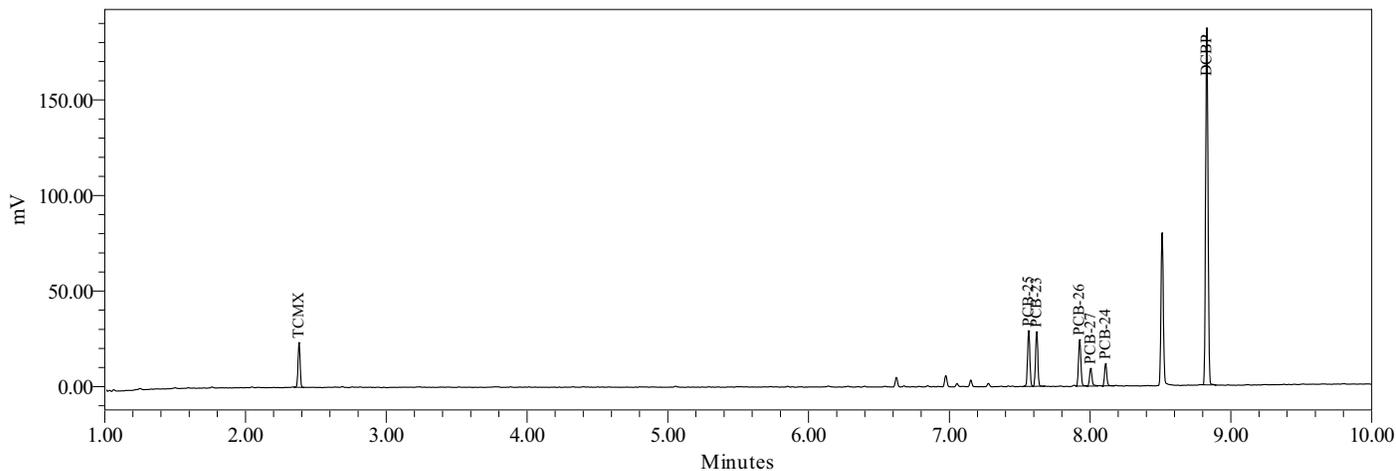
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



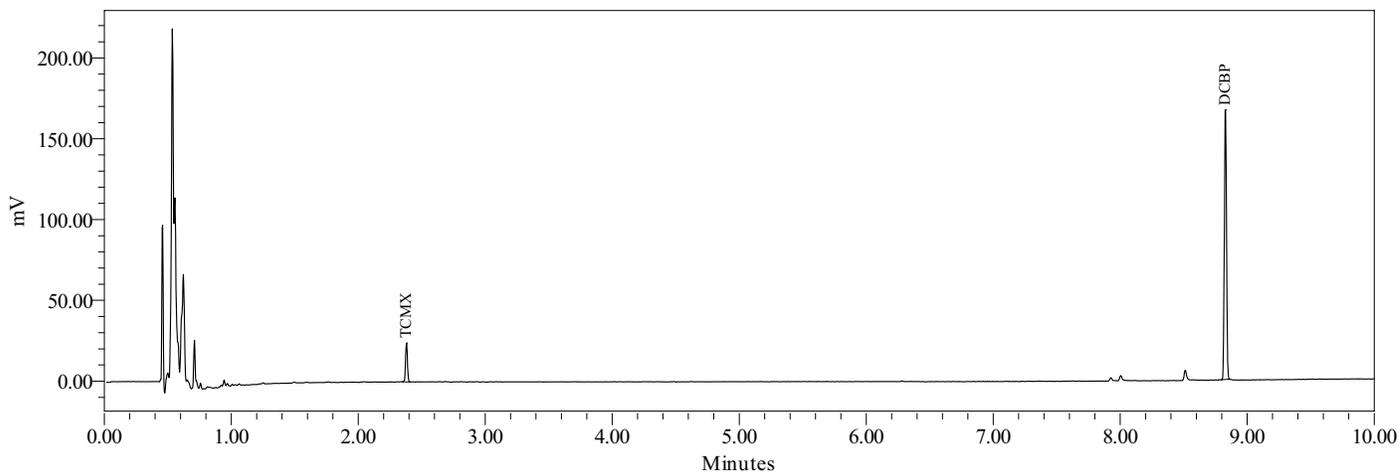
12

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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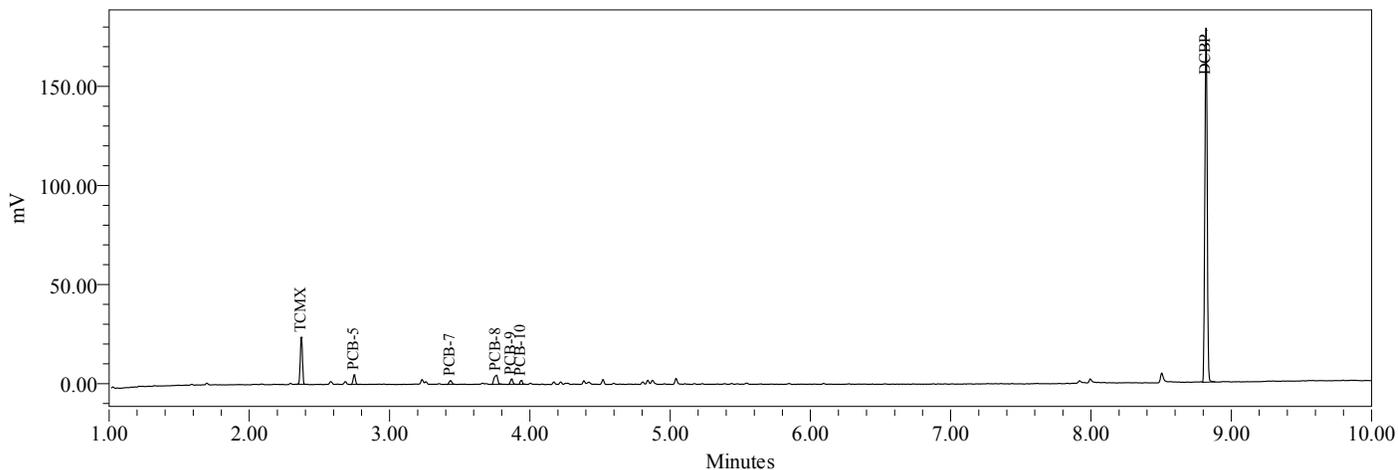
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS320603A               | Sample Amount:  | 1                       |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/3/2015 6:02:18 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/3/2015 6:30:14 PM EDT |
| Sample Set Name:   | GC28F_060315C           | User Name:      | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F LLCC 031215       | Current Date:   | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 7:39:26 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-30 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 25319         | 5.193                | 103.9       |             |
| 2 PCB-5   | 2.748          | bb               | 5385          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 2453          |                      |             |             |
| 4 PCB-8   | 3.760          | bb               | 8009          |                      |             |             |
| 5 PCB-9   | 3.870          | bb               | 3217          |                      |             |             |
| 6 PCB-10  | 3.939          | bb               | 2065          |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 206813        | 50.693               |             | 101.4       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 15744               | 18.547               | -62.91              |        |      |
| 2 A1221     | 5385                | 21.461               | -57.08              |        |      |
| 3 A1221-2   | 5385                | 23.123               | -53.75              |        |      |
| 4 A1232     | 21129               | 48.430               | -3.14               | X      |      |
| 5 A1232-8/9 | 9903                | 48.134               | -3.73               |        |      |
| 6 A1242     | 15744               | 23.767               | -52.47              |        |      |



12

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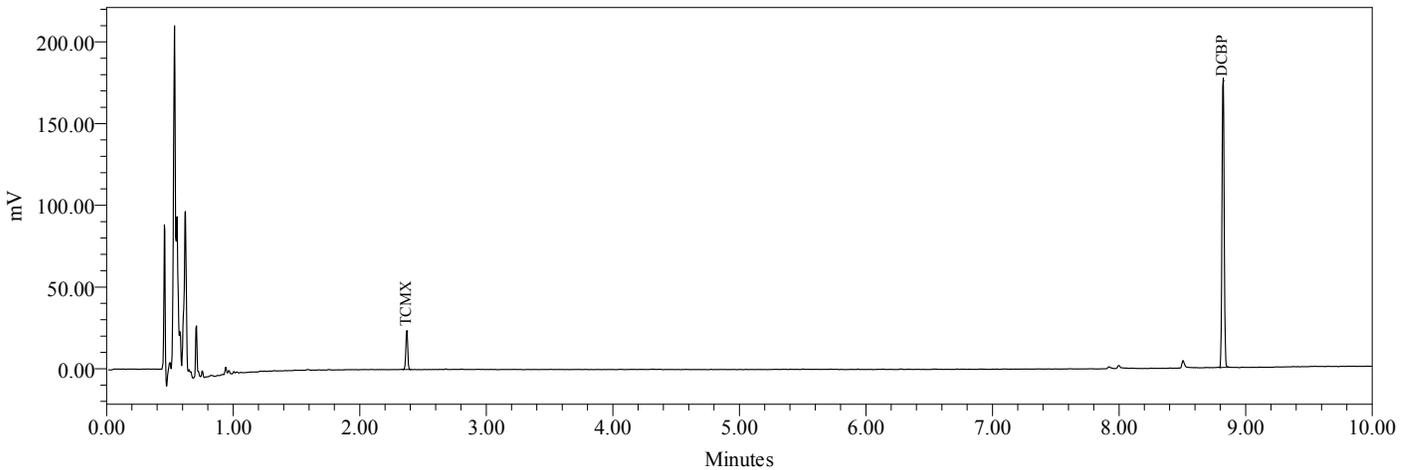
**Phone: (518) 346-4592 Fax: (518) 381-6055**

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Sample Name: 150603B10 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/3/2015 6:16:15 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/3/2015 6:30:29 PM EDT  
Sample Set Name: GC28F\_060315C User Name: Amie Hamilton (AmieH)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/3/2015  
Run Time: 10.0 Minutes Current Time: 7:39:34 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1632-31 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.373          | bb               | 24990         | 5.125                | 102.49024 |           |
| 2 DCBP    | 8.822          | bb               | 212500        | 52.181               |           | 104.36144 |



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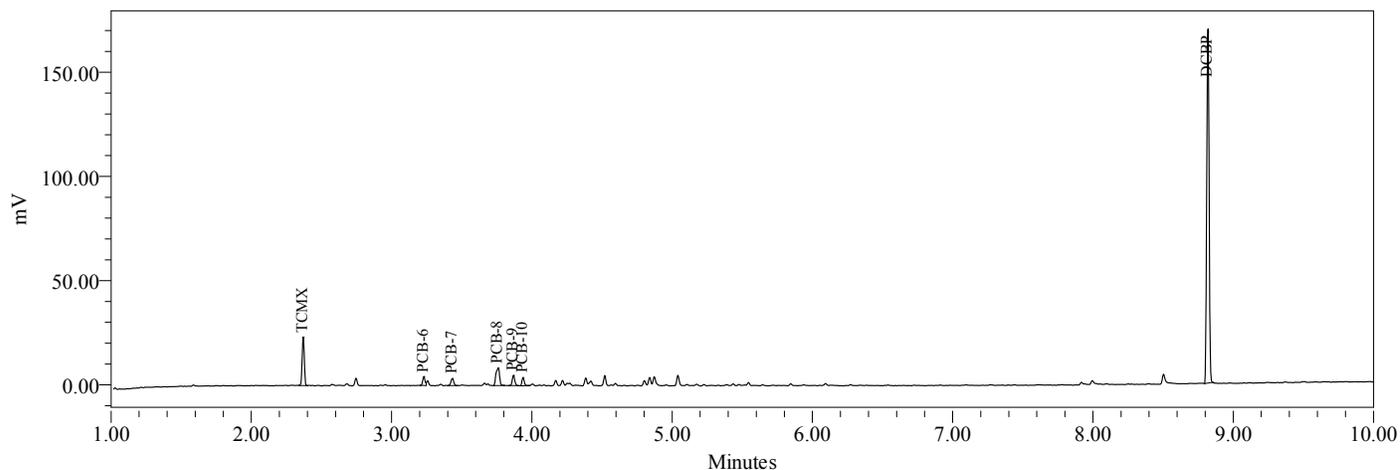
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS420603A               | Sample Amount:  | 1                       |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/3/2015 8:35:14 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/3/2015 8:45:50 PM EDT |
| Sample Set Name:   | GC28F_060315d           | User Name:      | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F LLCC 031215       | Current Date:   | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 8:48:44 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1632-41 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | vV               | 24528         | 5.028                | 100.6       |             |
| 2 PCB-6   | 3.230          | BV               | 4835          |                      |             |             |
| 3 PCB-7   | 3.433          | BB               | 4802          |                      |             |             |
| 4 PCB-8   | 3.759          | BB               | 14765         |                      |             |             |
| 5 PCB-9   | 3.869          | BB               | 6127          |                      |             |             |
| 6 PCB-10  | 3.937          | VB               | 4322          |                      |             |             |
| 7 DCBP    | 8.819          | BB               | 198431        | 48.501               |             | 97.0        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 34851               | 41.274               | -17.45              |        |      |
| 2 A1232     | 30016               | 68.805               | 37.61               |        |      |
| 3 A1232-8/9 | 9124                | 44.311               | -11.38              |        |      |
| 4 A1242     | 34851               | 52.826               | 5.65                | X      |      |



12

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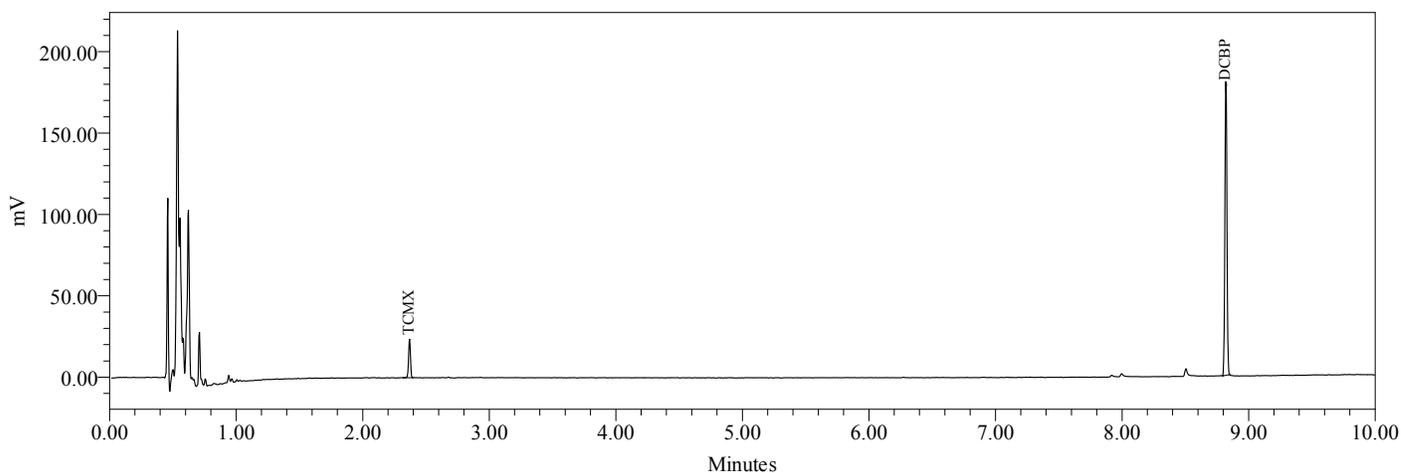
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Sample Name: 150603B12 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/3/2015 8:48:49 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/3/2015 9:06:27 PM EDT  
Sample Set Name: GC28F\_060315d User Name: Amie Hamilton (AmieH)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/3/2015  
Run Time: 10.0 Minutes Current Time: 9:08:01 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1632-42 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|--------|-----------|
| 1         | TCMX           | 2.370            | BB            | 24748                | 5.074  | 101.47544 |
| 2         | DCBP           | 8.821            | BB            | 205460               | 50.339 | 100.67847 |



# QC SAMPLE RAW DATA

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                      |
|-----------------------|---|------------------|----------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060056</u>      |
| ELAP ID No:           | <u>11078</u>  | LRP ID:          | <u>PBLK-92</u>       |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>METHOD BLANK</u>  |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS11507B</u>      |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1632-32</u> |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>            |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/03/2015</u>    |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/03/2015</u>    |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>             |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>           |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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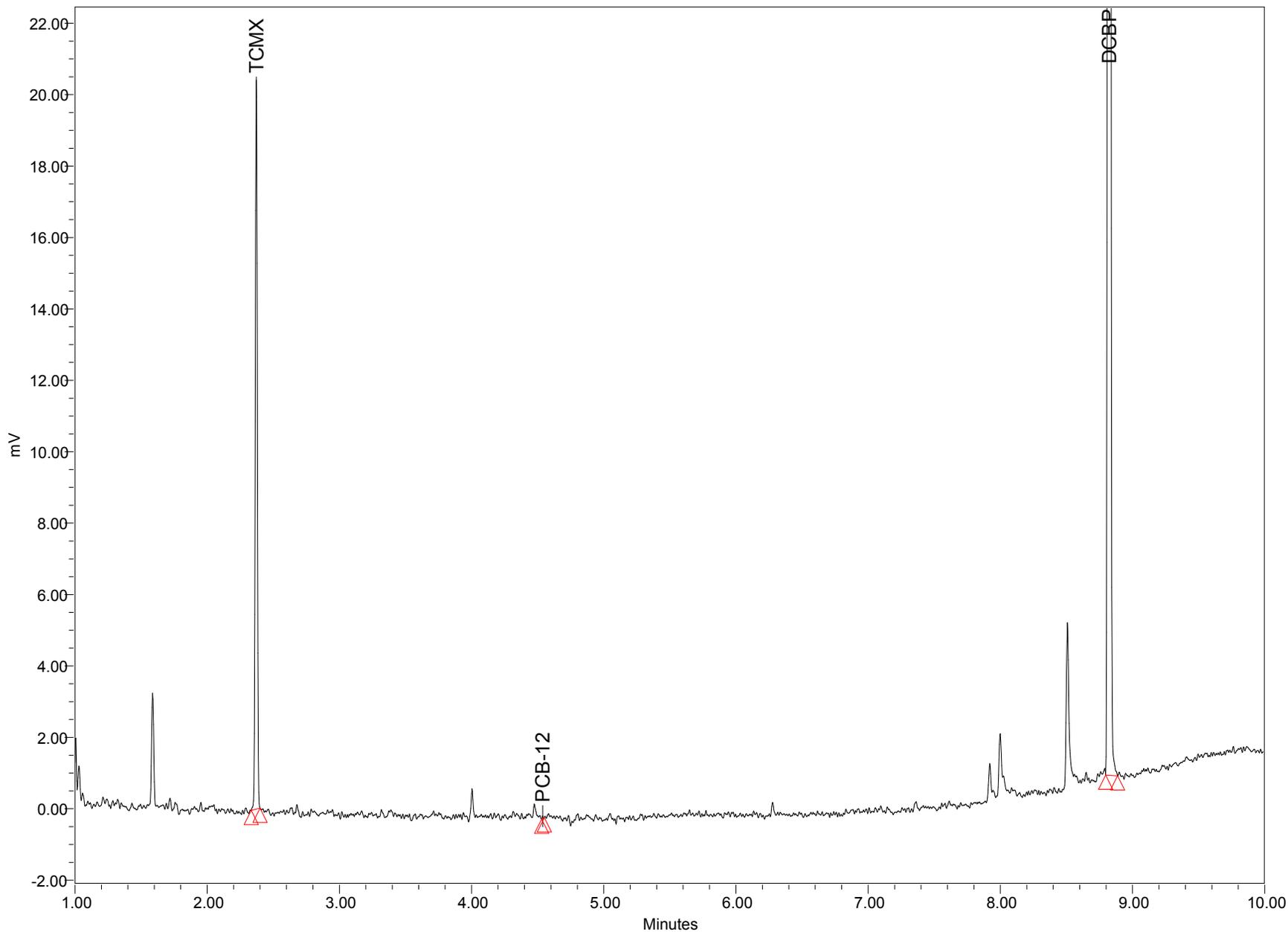
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11507B                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                       |
| Date Acquired:     | 6/3/2015 6:30:09 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:28:52 PM EDT |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 7:39:17 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-32 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 21565         | 4.407                | 88.1        |             |
| 2 | PCB-12    | 4.538          | bb               | 40            |                      |             |             |
| 3 | DCBP      | 8.823          | Bb               | 197927        | 48.369               |             | 96.7        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1248       | 39.8991             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 2 | A1248-11/15 | 39.8991             | 0.062                | 0.00031     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1248-14/15 | 39.8991             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11507B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060056</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-92</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11507L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1632-33</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/03/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/03/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.239                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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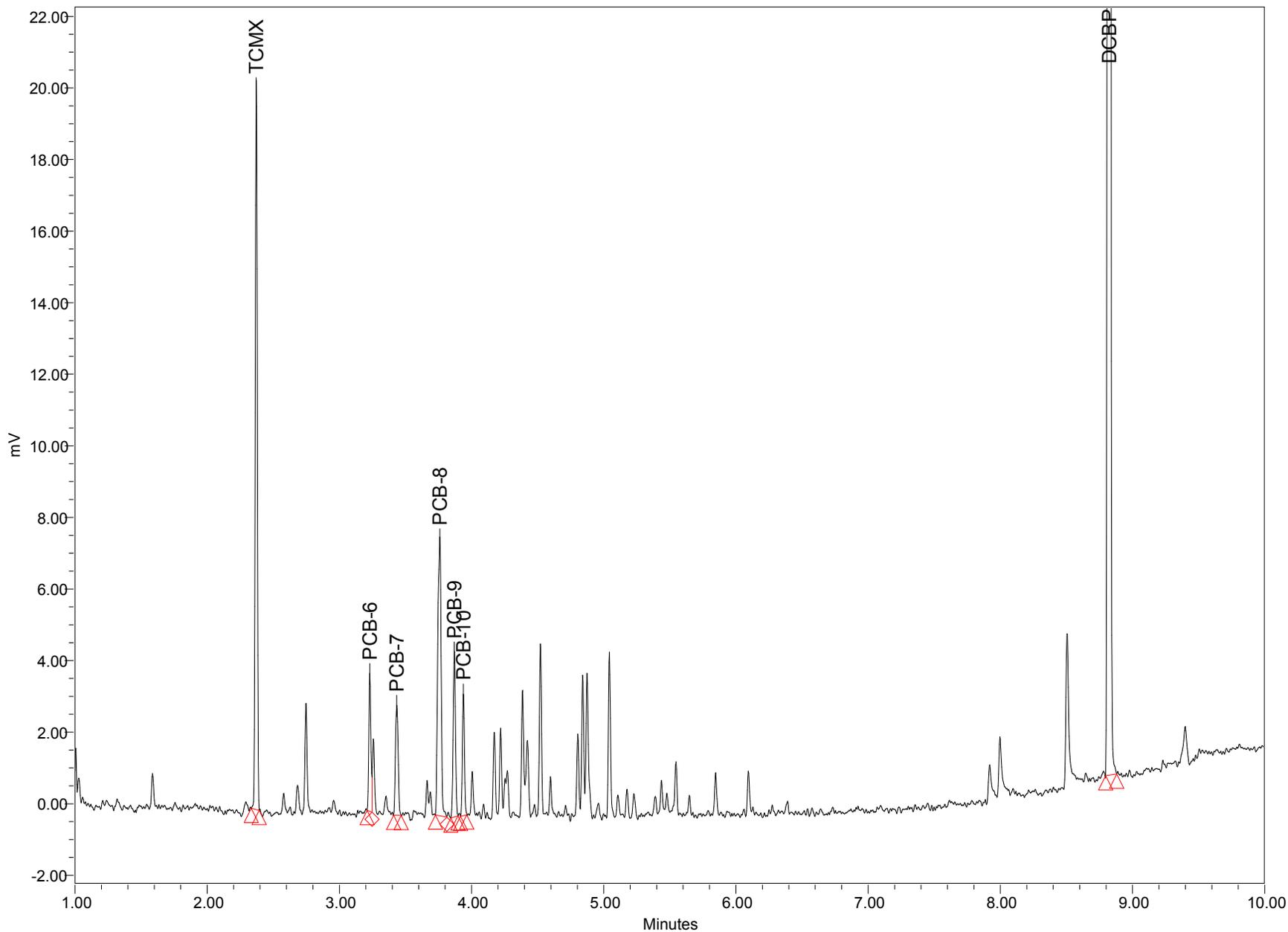
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11507L                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                       |
| Date Acquired:     | 6/3/2015 6:43:59 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/3/2015 7:29:20 PM EDT |
| Sample Set Name:   | GC28F_060315d           | User Name:          | Amie Hamilton (AmieH)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/3/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 7:39:09 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1632-33 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | BB               | 21479         | 4.389                | 87.8        |             |
| 2 | PCB-6     | 3.230          | BV               | 4200          |                      |             |             |
| 3 | PCB-7     | 3.434          | BB               | 4367          |                      |             |             |
| 4 | PCB-8     | 3.759          | BV               | 13819         |                      |             |             |
| 5 | PCB-9     | 3.870          | BB               | 5493          |                      |             |             |
| 6 | PCB-10    | 3.938          | BB               | 3731          |                      |             |             |
| 7 | DCBP      | 8.822          | Bb               | 200987        | 49.169               |             | 98.3        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 31610.5179          | 37.420               | 0.18710     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27410.0654          | 62.830               | 0.31415     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8098.1209           | 39.276               | 0.19638     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 31610.5179          | 47.898               | 0.23949     | 0.0250   | 0.00873  | X      |      |



SampleName AS11507L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060056

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-LOC5-T150603081650  
**Lab Sample ID:** 15060056-01 (AS11507)

**Collection Date:** 06/03/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/03/2015 12:15  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-34 | NE273_04 (Quick TAT Aroclor Method) | 06/03/2015 18:57 | ALH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30928         | EPA 3535A                           | 06/03/2015 14:50 | KEN     | 960 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0260 | 1.00            | U     | GC28F-1632-34 |
| Aroclor 1221          | 11104-28-2 | 0.132         | 0.0260 | 1.00            | PB    | GC28F-1632-34 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1632-34 |
| Aroclor 1242          | 53469-21-9 | 0.0393        | 0.0260 | 1.00            | AD    | GC28F-1632-34 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0260 | 1.00            | U     | GC28F-1632-34 |
| Aroclor 1254          | 11097-69-1 | 0.0159        | 0.0260 | 1.00            | AF,J  | GC28F-1632-34 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1632-34 |
| Total PCB Amount > RL | 1336-36-3  | 0.1872        |        | 1.00            |       | GC28F-1632-34 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 92.1       | 70.0-130   |                | GC28F-1632-34 |
| Decachlorobiphenyl      | 2051-24-3 | 85.5       | 70.0-130   |                | GC28F-1632-34 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060056

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-WAFA-T150603081740  
**Lab Sample ID:** 15060056-02 (AS11508)

**Collection Date:** 06/03/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/03/2015 12:15  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1632-35 | NE273_04 (Quick TAT Aroclor Method) | 06/03/2015 19:11 | ALH     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30928         | EPA 3535A                           | 06/03/2015 14:50 | KEN     | 1080 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L)  | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|----------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND             | 0.0250 | 1.00            | U     | GC28F-1632-35 |
| Aroclor 1221          | 11104-28-2 | <b>0.0910</b>  | 0.0250 | 1.00            | PB    | GC28F-1632-35 |
| Aroclor 1232          | 11141-16-5 | ND             | 0.0250 | 1.00            | U     | GC28F-1632-35 |
| Aroclor 1242          | 53469-21-9 | <b>0.0444</b>  | 0.0250 | 1.00            | AD    | GC28F-1632-35 |
| Aroclor 1248          | 12672-29-6 | ND             | 0.0250 | 1.00            | U     | GC28F-1632-35 |
| Aroclor 1254          | 11097-69-1 | <b>0.00913</b> | 0.0250 | 1.00            | AF,J  | GC28F-1632-35 |
| Aroclor 1260          | 11096-82-5 | ND             | 0.0250 | 1.00            | U     | GC28F-1632-35 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.14453</b> |        | 1.00            |       | GC28F-1632-35 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 97.7       | 70.0-130   |                | GC28F-1632-35 |
| Decachlorobiphenyl      | 2051-24-3 | 86.8       | 70.0-130   |                | GC28F-1632-35 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060056

ELAP ID No: 11078

Duplicate Lab ID No: AS11507D

Date Analyzed: 6/3/2015

Original Lab ID No: AS11507

| TEST PARAMETER         | ORIGINAL SAMPLE<br>RESULT<br>(mg/L) | DUPLICATE SAMPLE<br>RESULT<br>(mg/L) | RELATIVE <sup>1</sup><br>PERCENT<br>DIFFERENCE (RPD) # |
|------------------------|-------------------------------------|--------------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 22.3                                | 22.0                                 | 1.46   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2110 Date In Oven: 06/03/2015 Temp: 103.3 degree C Analyst: Daniel Dodaro

**Finish:** STD Lot # 060115B9P11 Date Out Oven: 06/03/2015 Temp: 103.3 degree C Analyst: Daniel Dodaro

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29151   | BLANK-66       | AS11504B      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRX        | 1000             | 0.1100         | 0.1106       | 0.6               |                    |       |      |          |
| 29150   | LCS-66         | AS11504L      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRY        | 250              | 0.1167         | 0.1414       | 98.8              | 100                | 98.8  |      |          |
| 29144   | 15060055-01    | AS11504       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WRZ        | 1060             | 0.1167         | 0.1196       | 2.74              |                    |       |      |          |
| 29145   | 15060055-02    | AS11505       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS0        | 1040             | 0.1165         | 0.1185       | 1.92              |                    |       |      |          |
| 29146   | 15060055-03    | AS11506       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS1        | 960              | 0.1130         | 0.1155       | 2.6               |                    |       |      |          |
| 29147   | 15060056-01    | AS11507       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS2        | 870              | 0.1126         | 0.1320       | 22.3              |                    |       |      |          |
| 29149   | 15060056-01DUP | AS11507D      | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS3        | 860              | 0.1118         | 0.1307       | 22                |                    |       | 1.46 |          |
| 29148   | 15060056-02    | AS11508       | L      | <input checked="" type="checkbox"/> | 21:22        | 23:27         | WS4        | 740              | 0.1122         | 0.1414       | 39.5              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review:   
Daniel Dodaro

Peer Review:   
Jeanne Shoulder

PrintDate: 6/4/2015  
Lims Version : 5.0.8.9  
\_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060056

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150603081650 | <b>Received Date:</b> 06/03/2015 12:15   |
| <b>Lab Sample ID:</b> 15060056-01 (AS11507)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2110 | SM 2540D | 06/03/2015 21:22 | DSD     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 22.3          | 1.15 | 1.15            |       | 2110    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060056

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150603081740 | <b>Received Date:</b> 06/03/2015 12:15   |
| <b>Lab Sample ID:</b> 15060056-02 (AS11508)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2110 | SM 2540D | 06/03/2015 21:22 | DSD     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 39.5          | 1.35 | 1.35            |       | 2110    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 03, 2015

**Lab Report ID:** 15060107

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 25, 2015

CASE NARRATIVE

This data package (SDG ID: 15060107) consists of 7 water samples received on 06/04/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS11827              | FRS-FDBL-T150603120634   | 06/03/2015 11:58       |
| AS11828              | FRS-STWA-T150603120444   | 06/03/2015 12:04       |
| AS11829              | NRS-162.90-T150603081831 | 06/03/2015 06:00       |
| AS11830              | NRS-186.00-T150603081924 | 06/03/2015 06:00       |
| AS11831              | NRS-187.70-T150603082254 | 06/03/2015 06:00       |
| AS11832              | NRS-189.10-T150603082057 | 06/03/2015 06:00       |
| AS11833              | NRS-BDUP-T150603081852   | 06/03/2015             |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/04/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Samples (LAB ID: AS11828, AS11830, AS11831, and AS11833) and including quality control samples (LAB ID: AS11838B and AS11838L) were re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D. The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



385 West Grand Avenue, Montvale, NJ 07645 PH: 201-930-9899

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150603153100PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD    | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|-----------|----|-----|----|------------------------|--------------|
| 001               | FRS-FDBL-T150603120634   | FDBL  | W         | 06/03/2015     | 11:58          | W      | 1            |                        |           |    |     |    |                        |              |
| 002               | FRS-STWA-T150603120444   | ENV   | W         | 06/03/2015     | 12:04          | W      | 3            | Aroclor Water          | NE273_04  | N  | N   | N  | 168                    | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 168                    | 4degC        |
|                   |                          |       |           |                |                |        |              | CS PCB extract         | NE294_02A | N  | N   | N  | 480                    | 4degC        |
| 003               | NRS-162.90-T150603081831 | ENV   | W         | 06/03/2015     | 06:00          | W      | 2            | Aroclor Water          | NE273_04  | N  | N   | N  | 168                    | 4degC        |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| 004               | NRS-186.00-T150603081924 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| 005               | NRS-187.70-T150603082254 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| 006               | NRS-189.10-T150603082057 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| 007               | NRS-BDUP-T150603081852   | DUP   | W         | 06/03/2015     |                | W      | 2            |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |

A511827

A511828

A511829

A511830

A511831

A511832

A511833

| Comments: Temp: 20 (PR), 310, 2.7 COC sealed (Y) |                               |                               |                               |                               |                               |
|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Relinquished by:                                 | Received by:                  | Relinquished by:              | Received by:                  | Relinquished by:              | Received by:                  |
| Signature: <i>[Signature]</i>                    | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> |
| Print Name: <i>Shan Suri</i>                     | Print Name: <i>MIL</i>        | Print Name: <i>MIL</i>        | Print Name: <i>Anta Mar</i>   | Print Name:                   | Print Name:                   |
| Company: <i>AA</i>                               | Company: <i>PACE</i>          | Company: <i>PACE</i>          | Company: <i>PACE</i>          | Company:                      | Company:                      |
| Date/Time: <i>6/4/15 1045</i>                    | Date/Time: <i>6-4-15 1200</i> | Date/Time: <i>6-4-15 1200</i> | Date/Time: <i>6/4/15 1240</i> | Date/Time:                    | Date/Time:                    |

Date Printed: 6/3/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER \*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



**Sample Condition Upon Receipt**



CLIENT NAME: GE  
 PROJECT: HR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # MA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None   
 THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 2.0, 2.0, 2.7  
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |                                   |  |
|--|---|--|---|-----------------------------------|--|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |                                   |  |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |                                   |  |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |                                   |  |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |                                   |  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |                                   |  |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |                                   |  |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>72hr</u>                          |                                   |  |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |                                   |  |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |                                   |  |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |                                   |  |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |                                   |  |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 11.                               |  |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |                                   |  |
| - Includes date/time/ID/Analysis   |   |  |   |                                   |  |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 13.                               |  |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                                   |  |
| - Exceptions that are not checked: VOA   |   |  |   | Initial when completed: <u>MA</u> | Lot # of added preservative: <u>MA</u> |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.                               |  |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.                               |  |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                                   |  |
| Pace Trip Blank Lot #: <u>MA</u>   |   |  |   |                                   |  |

Sample Receipt form filled in: ATM 6/4/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS):  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

ATM 6/4/15  
ATM 6/4/15  
ATM 6/4/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LR#:** 15060107  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LR# TAT:** 14 DAYS

**RECEIVED DATE:** 06/04/2015 12:40  
**SHIPPED VIA:** PICK UP <sup>1</sup>  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 3  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0 (IR), 3.0, 2.7 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
<sup>3</sup> **SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION                         | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|--|------------|
| FRS-FDBL-T150603120634 (AS11827)   | 7 DAYS 06-11-15           | 06/03/2015 11:58  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
|                                    | 14 DAYS 06-18-15          | 06/03/2015 11:58  | Water  | SOP NE294_02       | Congener PCB (1L CSGB 410 - 508 Extract) |            |
| FRS-STWA-T150603120444 (AS11828)   | 7 DAYS 06-11-15           | 06/03/2015 12:04  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | 7 DAYS 06-11-15           | 06/03/2015 12:04  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
|                                    | 14 DAYS 06-18-15          | 06/03/2015 12:04  | Water  | SOP NE294_02       | Congener PCB (1L CSGB 410 - 508 Extract) |            |
| NRS-162.90-T150603081831 (AS11829) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-186.00-T150603081924 (AS11830) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-187.70-T150603082254 (AS11831) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-189.10-T150603082057 (AS11832) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-BDUP-T150603081852 (AS11833)   | *72 HOUR* 06-07-15        | 06/03/2015        | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015        | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

SOP NE294\_02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- DCBP
- Peak 10
- Peak 100
- Peak 101
- Peak 102
- Peak 103
- Peak 104
- Peak 105
- Peak 106
- Peak 107
- Peak 108
- Peak 109
- Peak 11
- Peak 110

SOP NE294\_02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- Peak 111
- Peak 112
- Peak 113
- Peak 114
- Peak 115
- Peak 116
- Peak 117
- Peak 118
- Peak 12
- Peak 13
- Peak 14
- Peak 15
- Peak 16
- Peak 17



# SAMPLE RECEIPT REPORT

## 15060107

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

Continued...

SOP NE294 02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- Peak 19
- Peak 2
- Peak 20
- Peak 21
- Peak 22
- Peak 23
- Peak 24
- Peak 25
- Peak 26
- Peak 27
- Peak 28
- Peak 29
- Peak 3
- Peak 30
- Peak 31
- Peak 32
- Peak 33
- Peak 34
- Peak 35
- Peak 36
- Peak 37
- Peak 38
- Peak 39
- Peak 4
- Peak 41
- Peak 42
- Peak 43
- Peak 44
- Peak 45
- Peak 46
- Peak 47
- Peak 48
- Peak 49
- Peak 5 (10)
- Peak 5 (4)
- Peak 50
- Peak 51
- Peak 52
- Peak 53
- Peak 54
- Peak 55
- Peak 56
- Peak 57
- Peak 58
- Peak 59
- Peak 6
- Peak 60
- Peak 61
- Peak 62
- Peak 63
- Peak 64
- Peak 65
- Peak 66
- Peak 67
- Peak 68
- Peak 69
- Peak 7
- Peak 70
- Peak 71
- Peak 72
- Peak 73
- Peak 74

SOP NE294 02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- Peak 75
- Peak 76
- Peak 77
- Peak 78
- Peak 79
- Peak 8
- Peak 80
- Peak 82
- Peak 83
- Peak 84
- Peak 85
- Peak 87
- Peak 88
- Peak 89
- Peak 9
- Peak 90
- Peak 91
- Peak 92
- Peak 93
- Peak 94
- Peak 95
- Peak 96
- Peak 98
- Peak 99
- TCMX
- Total PCB

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/04/15

Batch ID: 30943

Method: EPA 3535A

Initial for required Clean Up Steps

| ID | Prep ID | LAB Sample ID | Alt Sample ID | Matrix | pH | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |
|----|---------|---------------|---------------|--------|----|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|
|    |         |               |               |        |    |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |
| 1  | 307534  | PBLK-07       | AS11838B      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/04                               | NA                       | 06/04                       | 06/04                 | 5                   | 06/04             |          |
| 2  | 307533  | LCS-07        | AS11838L      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/04                               | NA                       | 06/04                       | 06/04                 | 5                   | 06/04             |          |
| 3  | 307526  | 15060109-02MS | AS11838M      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/04                               | NA                       | 06/04                       | 06/04                 | 5                   | 06/04             |          |
| 4  | 307525  | 15060109-01   | AS11837       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/04                               | NA                       | 06/04                       | 06/04                 | 5                   | 06/04             |          |
| 5  | 307527  | 15060109-02   | AS11838       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 960                     | NA                  | NA                   | NA                  | NA                   | 06/04                               | NA                       | 06/04                       | 06/04                 | 5                   | 06/04             |          |
| 6  | 307528  | 15060107-03   | AS11829       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 7  | 307529  | 15060107-04   | AS11830       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 8  | 307530  | 15060107-05   | AS11831       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1020                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 9  | 307531  | 15060107-06   | AS11832       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 10 | 307532  | 15060107-07   | AS11833       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 11 | 307535  | 15060107-01   | AS11827       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 12 | 307536  | 15060107-02   | AS11828       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/05                               | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                                   | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB             | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules CURRENT             | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar)                     | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaal*

Elizabeth Ramkirpaal

# PCB SCREEN SHEET

**LRF: 15060107**

**Batch ID: 30943**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11838BRR1   | GC28F-1633-28 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838LRR1   | GC28F-1633-29 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838M      | GC28F-1633-19 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11837       | GC28F-1633-20 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838       | GC28F-1633-21 | Water  | 06/04/15  | 960                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11829       | GC28F-1634-7  | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11830RR1    | GC28F-1635-9  | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11831RR1    | GC28F-1635-10 | Water  | 06/04/15  | 1020                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11832       | GC28F-1634-10 | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11833RR1    | GC28F-1635-11 | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11827       | GC28F-1634-12 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828RR1    | GC28F-1635-12 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

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COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060107

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-07RR1     | AS11838BRR1   | GC28F-1633-28 | 90.6                   | 100                    |           |           | 0         |
| LCS-07RR1      | AS11838LRR1   | GC28F-1633-29 | 91.4                   | 100                    |           |           | 0         |
| 15060107-01    | AS11827       | GC28F-1634-12 | 94.7                   | 106                    |           |           | 0         |
| 15060107-02RR1 | AS11828RR1    | GC28F-1635-12 | 96.5                   | 98.7                   |           |           | 0         |
| 15060107-03    | AS11829       | GC28F-1634-7  | 86.7                   | 78.7                   |           |           | 0         |
| 15060107-04RR1 | AS11830RR1    | GC28F-1635-9  | 93.7                   | 98.0                   |           |           | 0         |
| 15060107-05RR1 | AS11831RR1    | GC28F-1635-10 | 94.1                   | 97.7                   |           |           | 0         |
| 15060107-06    | AS11832       | GC28F-1634-10 | 97.5                   | 99.6                   |           |           | 0         |
| 15060107-07RR1 | AS11833RR1    | GC28F-1635-11 | 92.7                   | 89.3                   |           |           | 0         |

6

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060107</u>                           |
| LCS Lab ID: <u>LCS-07RR1</u>             | Blank Sample ID: <u>PBLK-07RR1</u>                |
| LCS File ID: <u>GC28F-1633-29</u>        | Method Blank File ID: <u>GC28F-1633-28</u>        |
| LCS Inj Date: <u>06/04/2015 20:17:30</u> | Method Blank Inj Date: <u>06/04/2015 20:03:30</u> |
| LCS ID: <u>AS11838LRR1</u>               | Method Blank ID: <u>AS11838BRR1</u>               |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT<br>RECOVERY |
|--------------|--------------------------|--------------------------------|------------------------------|---|
| Aroclor 1242 | 0.250                    | 0.244                          | 97.7                         | 70.0-130                                      |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Blank Sample ID: PBLK-07RR1

Matrix: Water

Method Blank ID: AS11838BRR1

Instrument ID: GC28F

Lab File ID: GC28F-1633-28

Extraction Type: 1L - Solid Phase Extraction

Date Extracted: 06/04/2015

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

Date Analyzed: 06/04/2015

Time Analyzed: 20:03:30

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-07(LAB CONTROL SPIKE) | AS11838LRR1      | GC28F-1633-29  | 06/04/2015 20:17:30     |
| NRS-162.90-T150603081831  | AS11829          | GC28F-1634-7   | 06/05/2015 15:24:34     |
| NRS-189.10-T150603082057  | AS11832          | GC28F-1634-10  | 06/05/2015 16:05:59     |
| FRS-FDBL-T150603120634    | AS11827          | GC28F-1634-12  | 06/05/2015 16:33:46     |
| NRS-186.00-T150603081924  | AS11830RR1       | GC28F-1635-9   | 06/06/2015 10:22:42     |
| NRS-187.70-T150603082254  | AS11831RR1       | GC28F-1635-10  | 06/06/2015 10:36:39     |
| NRS-BDUP-T150603081852    | AS11833RR1       | GC28F-1635-11  | 06/06/2015 10:50:17     |
| FRS-STWA-T150603120444    | AS11828RR1       | GC28F-1635-12  | 06/06/2015 11:04:17     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060107-01</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-FDBL-T150603120634</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS11827</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-12</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

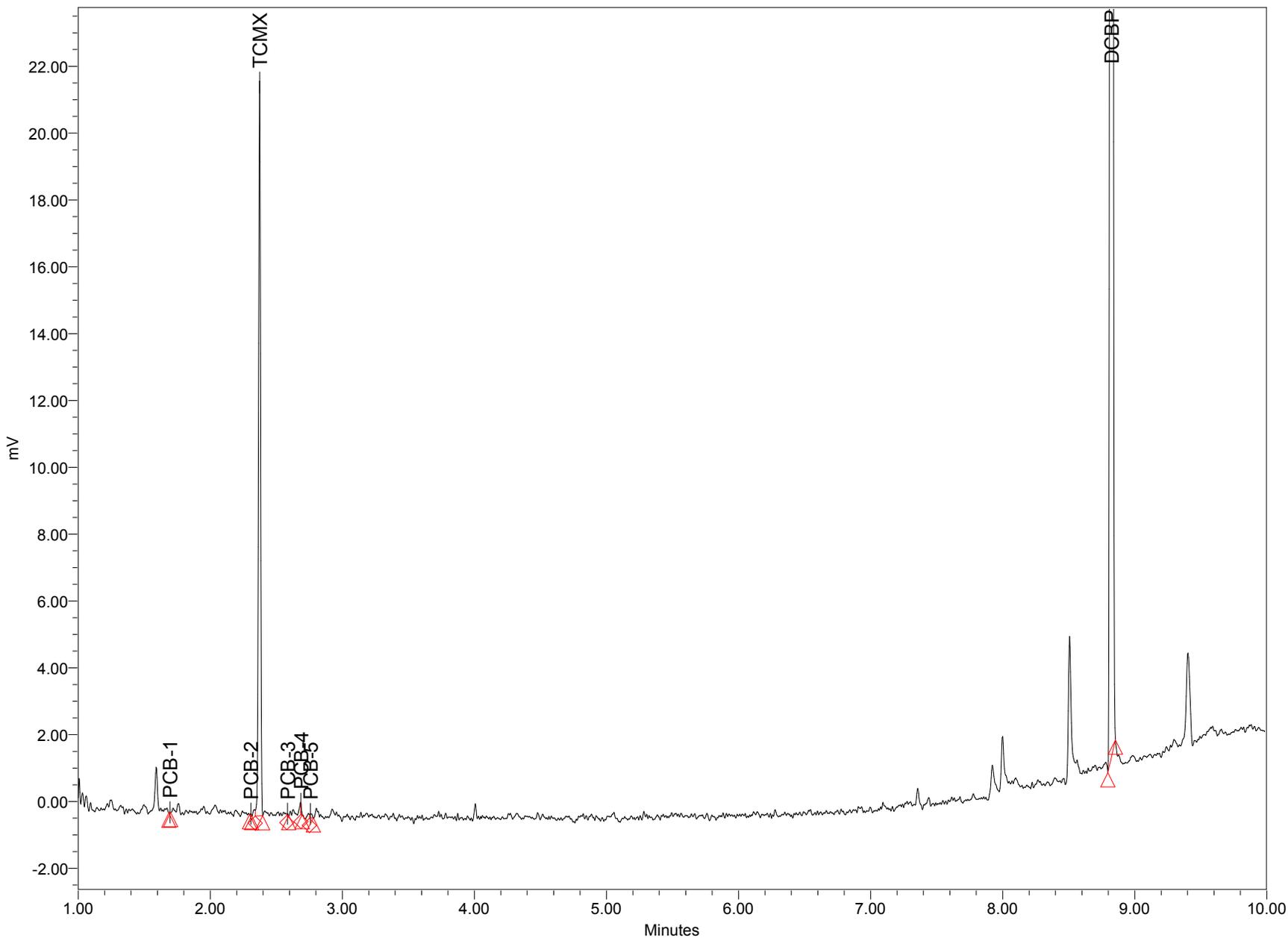
|                    |                         |                     |                          |
|--------------------|-------------------------|---------------------|--------------------------|
| Sample Name:       | AS11827                 | Sample Amount (L) : | 1.0400                   |
| Sample ID:         | FRS-FDBL-T150603120634  | Dilution:           | 5                        |
| Date Acquired:     | 6/5/2015 4:33:46 PM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/6/2015 11:21:53 AM EDT |
| Sample Set Name:   | GC28F_060515a           | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:54:04 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L      | LIMS File ID:       | GC28F-1634-12 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | PCB-1     | 1.694          | bb               | 6             |                      |             |             |
| 2 | PCB-2     | 2.307          | bb               | 23            |                      |             |             |
| 3 | TCMX      | 2.373          | vB               | 23139         | 4.737                | 94.7        |             |
| 4 | PCB-3     | 2.585          | vb               | 31            |                      |             |             |
| 5 | PCB-4     | 2.687          | vb               | 86            |                      |             |             |
| 6 | PCB-5     | 2.759          | vb               | 180           |                      |             |             |
| 7 | DCBP      | 8.823          | BB               | 215727        | 53.025               |             | 106         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1221     | 325.4699            | 1.358                | 0.00653     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1221-2   | 302.5088            | 1.882                | 0.00905     | 0.0250   | 0.00873  | NR     |      |
| 3 | A 1221-5   | 145.7499            | 1.576                | 0.00758     | 0.0250   | 0.00873  | NR     |      |
| 4 | A 1232     | 179.7201            | 0.402                | 0.00193     | 0.0250   | 0.00873  | NR     |      |
| 5 | A 1232-8/9 | 179.7201            | 0.407                | 0.00196     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11827; Sample\_ID FRS-FDBL-T150603120634

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060107</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060107-02RR1</u>         |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-STWA-T150603120444</u> |
| Sample wt(Dry)/vol:   | <u>1040 mL</u>  | Lab Sample ID:   | <u>AS11828RR1</u>             |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1635-12</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/04/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/04/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/06/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.186                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0253                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11828RR1               | Sample Amount (L) : | 1.0400                   |
| Sample ID:         | FRS-STWA-T150603120444   | Dilution:           | 5                        |
| Date Acquired:     | 6/6/2015 11:04:17 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 11:13:30 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:54:24 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1635-12 [m]        |

**Peak Results**

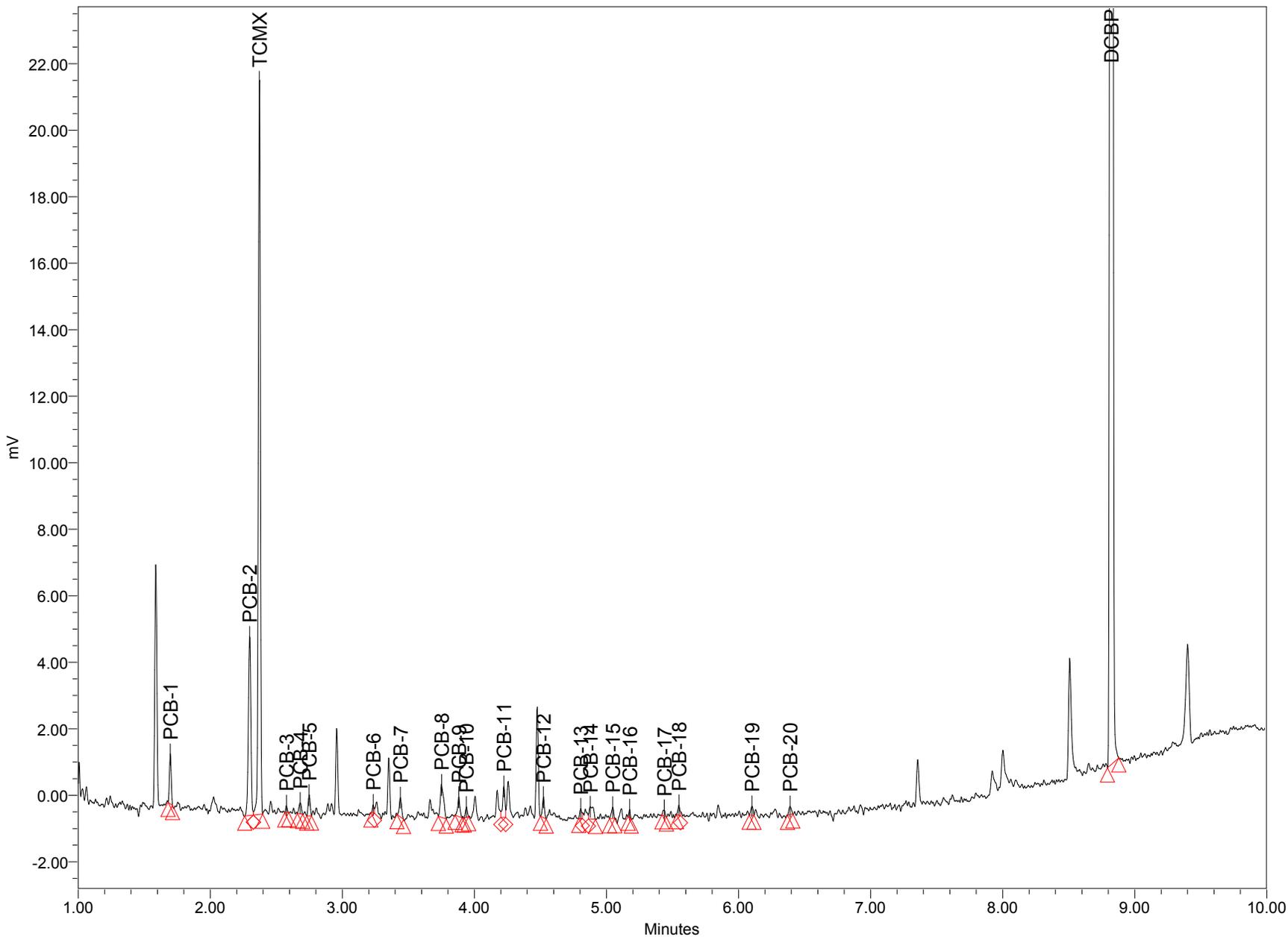
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | bb               | 1397          |                      |             |             |
| 2  | PCB-2     | 2.298          | bV               | 7058          |                      |             |             |
| 3  | TCMX      | 2.372          | Vb               | 23550         | 4.823                | 96.5        |             |
| 4  | PCB-3     | 2.577          | bb               | 176           |                      |             |             |
| 5  | PCB-4     | 2.681          | bb               | 433           |                      |             |             |
| 6  | PCB-5     | 2.748          | bb               | 662           |                      |             |             |
| 7  | PCB-6     | 3.233          | bV               | 209           |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 694           |                      |             |             |
| 9  | PCB-8     | 3.751          | bb               | 1683          |                      |             |             |
| 10 | PCB-9     | 3.882          | bb               | 682           |                      |             |             |
| 11 | PCB-10    | 3.939          | bb               | 311           |                      |             |             |
| 12 | PCB-11    | 4.223          | VV               | 1073          |                      |             |             |
| 13 | PCB-12    | 4.523          | bb               | 627           |                      |             |             |
| 14 | PCB-13    | 4.805          | bv               | 300           |                      |             |             |
| 15 | PCB-14    | 4.877          | Vb               | 851           |                      |             |             |
| 16 | PCB-15    | 5.047          | bb               | 411           |                      |             |             |
| 17 | PCB-16    | 5.176          | bb               | 169           |                      |             |             |
| 18 | PCB-17    | 5.437          | bb               | 200           |                      |             |             |
| 19 | PCB-18    | 5.549          | bv               | 290           |                      |             |             |
| 20 | PCB-19    | 6.102          | bb               | 308           |                      |             |             |
| 21 | PCB-20    | 6.390          | bb               | 323           |                      |             |             |
| 22 | DCBP      | 8.823          | bb               | 201615        | 49.333               |             | 98.7        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 3579.9623           | 4.078                | 0.01961     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 9725.3162           | 38.709               | 0.18610     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2667.0935           | 11.765               | 0.05656     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 9063.7286           | 72.252               | 0.34737     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 4032.2221           | 9.234               | 0.04440     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 1666.6122           | 7.706               | 0.03705     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 3579.9623           | 5.266               | 0.02532     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 3260.3550           | 3.891               | 0.01871     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 1776.9766           | 3.677               | 0.01768     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 1998.8827           | 5.288               | 0.02542     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1290.6712           | 1.431               | 0.00688     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 800.0411            | 1.581               | 0.00760     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 660.0309            | 1.190               | 0.00572     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 967.8466            | 1.455               | 0.00699     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 322.8246            | 0.150               | 0.00072     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 322.8246            | 0.769               | 0.00370     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 322.8246            |                     |             |          |          | NR     |      |



SampleName AS11828RR1; Sample\_ID FRS-STWA-T150603120444

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060107-03</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150603081831</u> |
| Sample wt(Dry)/vol: <u>1070 mL</u>                                     | Lab Sample ID: <u>AS11829</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-7</u>           |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0965                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0299                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11829                  | Sample Amount (L) : | 1.0700                   |
| Sample ID:         | NRS-162.90-T150603081831 | Dilution:           | 5                        |
| Date Acquired:     | 6/5/2015 3:24:34 PM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 11:28:00 AM EDT |
| Sample Set Name:   | GC28F_060515a            | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:52:34 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1634-7 [m]         |

**Peak Results**

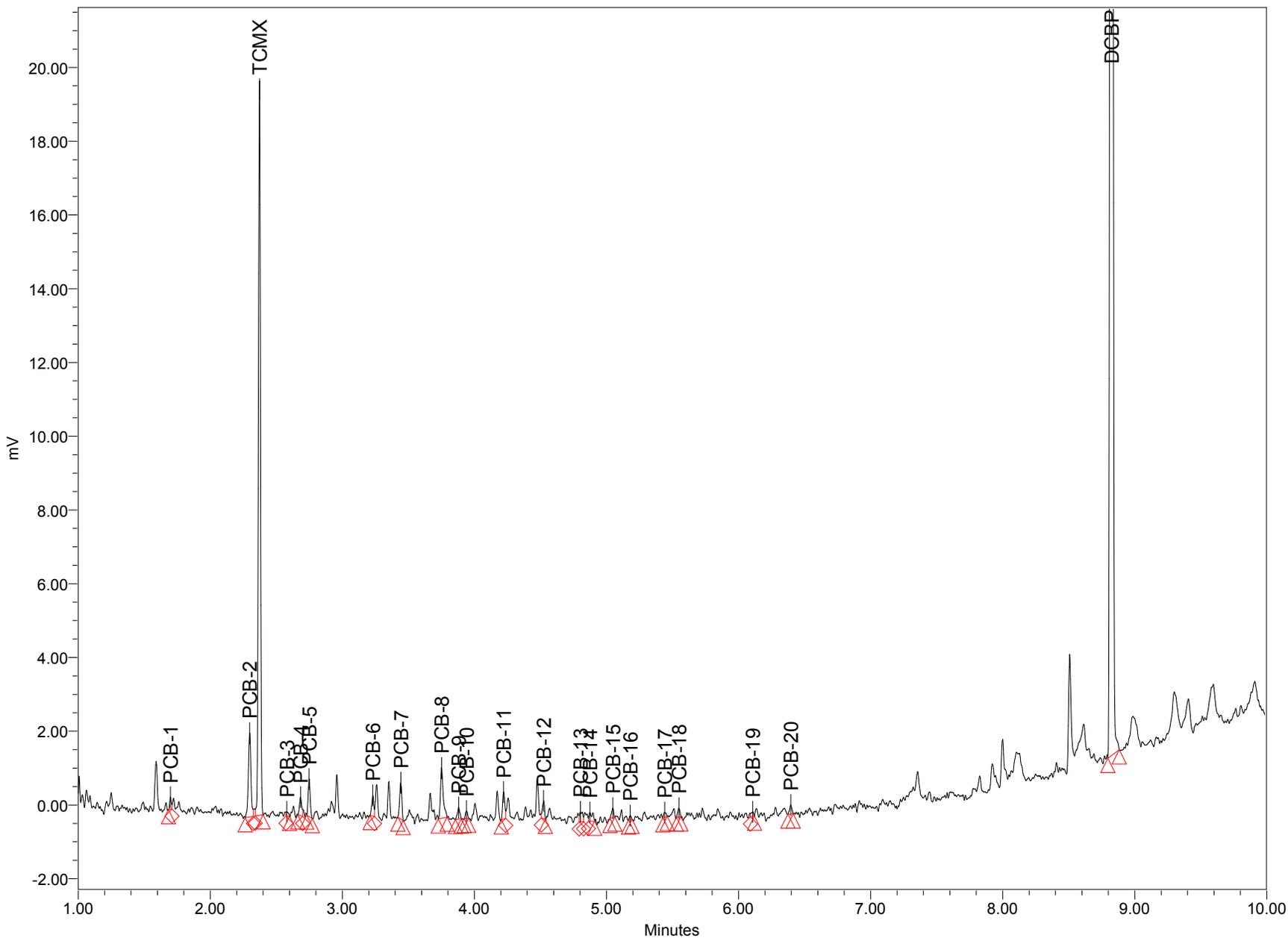
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bV               | 278           |                      |             |             |
| 2  | PCB-2     | 2.298          | bv               | 3080          |                      |             |             |
| 3  | TCMX      | 2.372          | vb               | 21210         | 4.333                | 86.7        |             |
| 4  | PCB-3     | 2.580          | vb               | 143           |                      |             |             |
| 5  | PCB-4     | 2.684          | bV               | 605           |                      |             |             |
| 6  | PCB-5     | 2.748          | bb               | 1074          |                      |             |             |
| 7  | PCB-6     | 3.230          | bV               | 605           |                      |             |             |
| 8  | PCB-7     | 3.442          | bb               | 1112          |                      |             |             |
| 9  | PCB-8     | 3.751          | bb               | 1987          |                      |             |             |
| 10 | PCB-9     | 3.881          | bb               | 400           |                      |             |             |
| 11 | PCB-10    | 3.940          | bb               | 226           |                      |             |             |
| 12 | PCB-11    | 4.221          | bV               | 813           |                      |             |             |
| 13 | PCB-12    | 4.524          | vb               | 531           |                      |             |             |
| 14 | PCB-13    | 4.804          | VV               | 442           |                      |             |             |
| 15 | PCB-14    | 4.875          | Vb               | 454           |                      |             |             |
| 16 | PCB-15    | 5.048          | bb               | 285           |                      |             |             |
| 17 | PCB-16    | 5.180          | bb               | 103           |                      |             |             |
| 18 | PCB-17    | 5.440          | bb               | 159           |                      |             |             |
| 19 | PCB-18    | 5.548          | bb               | 257           |                      |             |             |
| 20 | PCB-19    | 6.107          | Vb               | 154           |                      |             |             |
| 21 | PCB-20    | 6.395          | bb               | 294           |                      |             |             |
| 22 | DCBP      | 8.823          | Bb               | 163523        | 39.369               |             | 78.7        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 4330.3975           | 4.971                | 0.02323     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 5180.2224           | 20.649               | 0.09649     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2099.8529           | 9.394                | 0.04390     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 4106.0135           | 32.961               | 0.15403     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 4800.0737           | 10.995              | 0.05138     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 2413.0798           | 11.370              | 0.05313     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 4330.3975           | 6.408               | 0.02994     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 2524.9938           | 2.896               | 0.01353     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 1427.2971           | 2.949               | 0.01378     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 1785.4486           | 4.689               | 0.02191     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 968.1019            | 1.141               | 0.00533     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 551.2176            | 1.197               | 0.00559     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 520.3808            | 0.975               | 0.00456     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 674.5697            | 1.113               | 0.00520     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 293.5323            | 0.126               | 0.00059     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 293.5323            | 0.740               | 0.00346     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 293.5323            |                     |             |          |          | NR     |      |



SampleName AS11829; Sample\_ID NRS-162.90-T150603081831



|                    |                          |                      |                       |
|--------------------|--------------------------|----------------------|-----------------------|
| Lab ID:            | AS11829                  | Current Date Time:   | 6/23/2015 09:11:58    |
| Sample ID:         | NRS-162.90-T150603081831 | LIMS File ID:        | GC28F-1634-7          |
| Matrix:            | Water                    | Calibration ID:      | 6976                  |
| Date Analyzed:     | 06/05/2015 3:24:34 PM    | Calibration Date(s): | 03/12/2015,03/13/2015 |
| Processing Method: | GC28F_LLCC_031215        |                      |                       |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{5180.222385 - -16.185578}{251.658479} = 20.6487 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{20.6487 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1070 \text{ mL}} = 0.0965 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060107-04RR1</u>              |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-186.00-T150603081924</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS11830RR1</u>           |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1635-9</u>           |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/06/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.135                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0101                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11830RR1               | Sample Amount (L) : | 1.0400                   |
| Sample ID:         | NRS-186.00-T150603081924 | Dilution:           | 5                        |
| Date Acquired:     | 6/6/2015 10:22:42 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 10:44:56 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:52:55 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1635-9 [m]         |

**Peak Results**

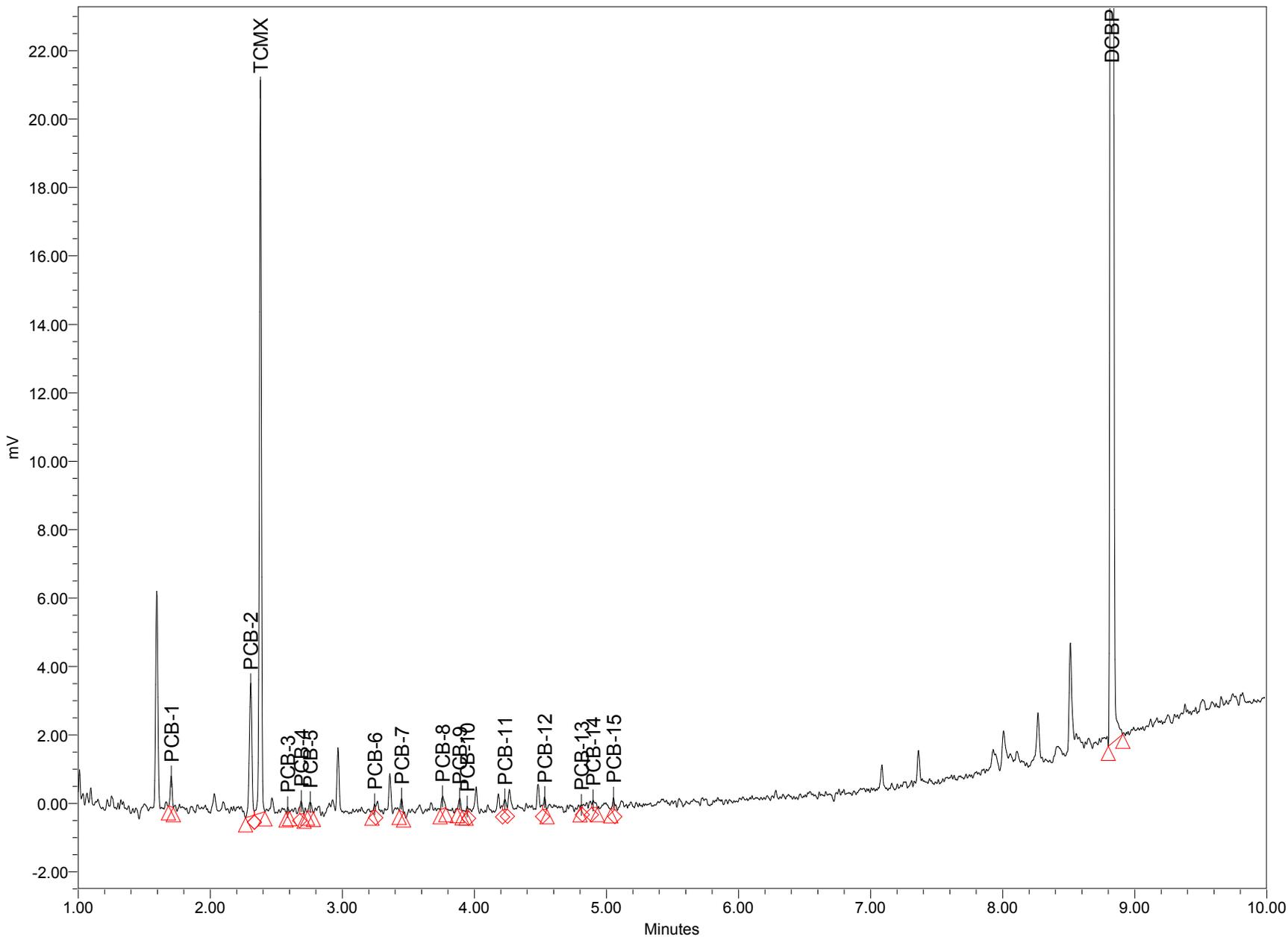
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.704          | bb               | 865           |                      |             |             |
| 2  | PCB-2     | 2.306          | bV               | 5292          |                      |             |             |
| 3  | TCMX      | 2.380          | Vb               | 22893         | 4.685                | 93.7        |             |
| 4  | PCB-3     | 2.586          | bb               | 101           |                      |             |             |
| 5  | PCB-4     | 2.689          | vb               | 434           |                      |             |             |
| 6  | PCB-5     | 2.757          | bb               | 379           |                      |             |             |
| 7  | PCB-6     | 3.244          | bV               | 164           |                      |             |             |
| 8  | PCB-7     | 3.448          | bb               | 374           |                      |             |             |
| 9  | PCB-8     | 3.759          | bb               | 515           |                      |             |             |
| 10 | PCB-9     | 3.889          | bb               | 337           |                      |             |             |
| 11 | PCB-10    | 3.945          | bv               | 109           |                      |             |             |
| 12 | PCB-11    | 4.230          | vV               | 403           |                      |             |             |
| 13 | PCB-12    | 4.532          | vb               | 367           |                      |             |             |
| 14 | PCB-13    | 4.811          | bv               | 60            |                      |             |             |
| 15 | PCB-14    | 4.899          | Vb               | 360           |                      |             |             |
| 16 | PCB-15    | 5.053          | bV               | 307           |                      |             |             |
| 17 | DCBP      | 8.827          | bb               | 200382        | 49.011               |             | 98.0        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 1498.8527           | 1.602                | 0.00770     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 7071.1926           | 28.163               | 0.13540     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 1779.4413           | 8.055                | 0.03873     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 6692.0898           | 53.457               | 0.25700     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 1714.3480           | 3.920                | 0.01885     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 861.6472            | 3.754                | 0.01805     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 1498.8527           | 2.101                | 0.01010     | 0.0250   | 0.00873  | X      | AD,J |
| 8 | A1248       | 1496.7777           | 1.505                | 0.00724     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1248-11/15 | 786.5647            | 1.616                | 0.00777     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 829.8875            | 2.004                | 0.00964     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11830RR1; Sample\_ID NRS-186.00-T150603081924

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060107-05RR1</u>              |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150603082254</u> |
| Sample wt(Dry)/vol: <u>1020 mL</u>                                     | Lab Sample ID: <u>AS11831RR1</u>           |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1635-10</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/06/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0315                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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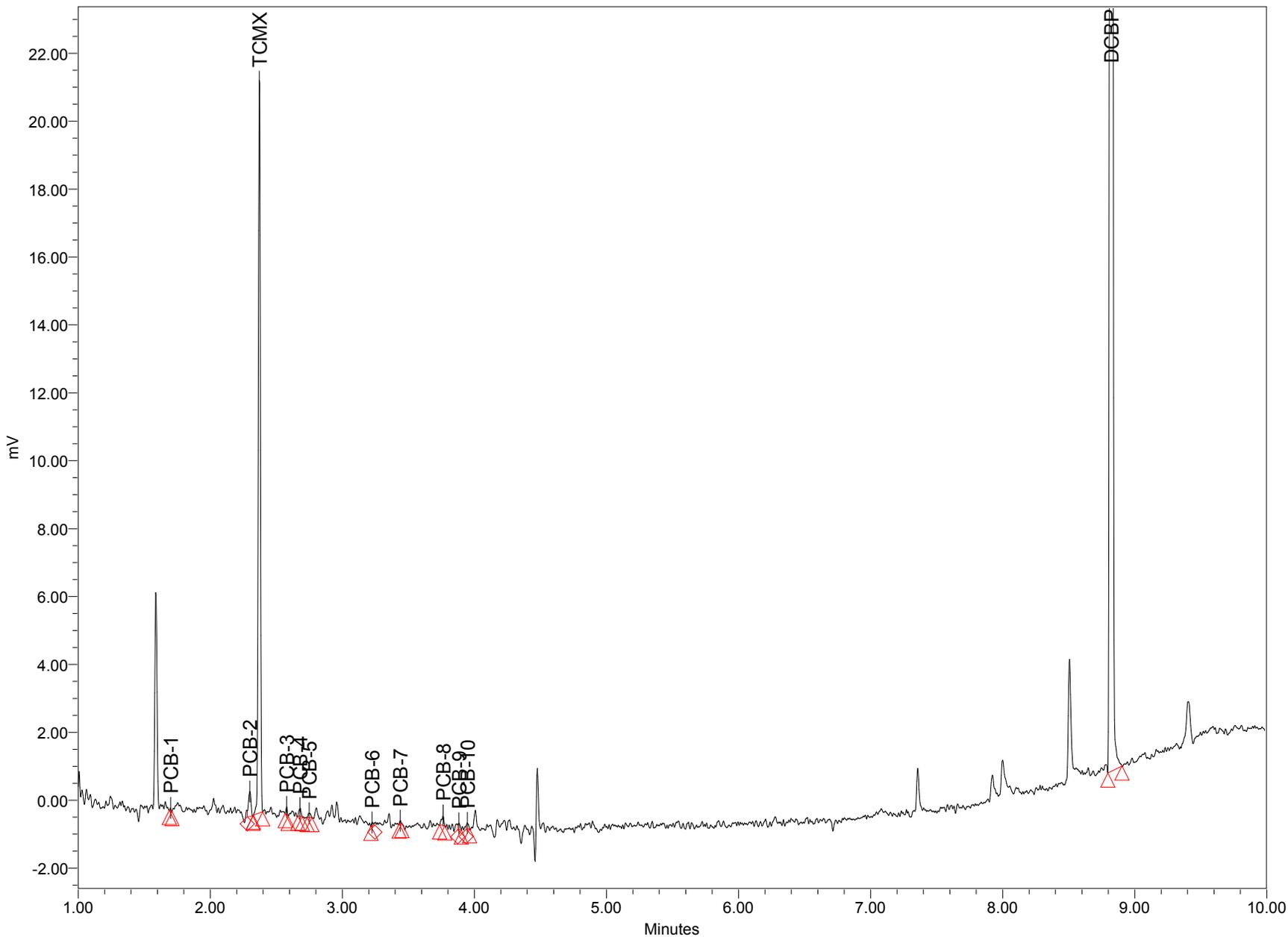
|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11831RR1               | Sample Amount (L) : | 1.0200                   |
| Sample ID:         | NRS-187.70-T150603082254 | Dilution:           | 5                        |
| Date Acquired:     | 6/6/2015 10:36:39 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 10:54:56 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:53:15 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1635-10 [m]        |

**Peak Results**

|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bb               | 47            |                      |             |             |
| 2  | PCB-2     | 2.299          | Vb               | 964           |                      |             |             |
| 3  | TCMX      | 2.371          | bb               | 22997         | 4.707                | 94.1        |             |
| 4  | PCB-3     | 2.579          | bb               | 167           |                      |             |             |
| 5  | PCB-4     | 2.679          | bb               | 266           |                      |             |             |
| 6  | PCB-5     | 2.749          | bb               | 160           |                      |             |             |
| 7  | PCB-6     | 3.225          | bv               | 115           |                      |             |             |
| 8  | PCB-7     | 3.438          | bb               | 61            |                      |             |             |
| 9  | PCB-8     | 3.763          | bb               | 365           |                      |             |             |
| 10 | PCB-9     | 3.883          | vb               | 208           |                      |             |             |
| 11 | PCB-10    | 3.947          | vb               | 204           |                      |             |             |
| 12 | DCBP      | 8.822          | bb               | 199750        | 48.846               |             | 97.7        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 953.3735            | 0.954                | 0.00467     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1221     | 1602.9861           | 6.434                | 0.03154     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A 1221-2   | 638.9805            | 3.288                | 0.01612     | 0.0250   | 0.00873  | NR     |      |
| 4 | A 1221-5   | 1443.4626           | 11.860               | 0.05814     | 0.0250   | 0.00873  | NR     |      |
| 5 | A 1232     | 997.7697            | 2.277                | 0.01116     | 0.0250   | 0.00873  | NR     |      |
| 6 | A 1232-8/9 | 424.8261            | 1.610                | 0.00789     | 0.0250   | 0.00873  | NR     |      |
| 7 | A 1242     | 953.3735            | 1.271                | 0.00623     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11831RR1; Sample\_ID NRS-187.70-T150603082254

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060107</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRP ID:          | <u>15060107-06</u>              |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-189.10-T150603082057</u> |
| Sample wt(Dry)/vol:   | <u>1070 mL</u>  | Lab Sample ID:   | <u>AS11832</u>                  |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1634-10</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/04/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/04/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/05/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0271                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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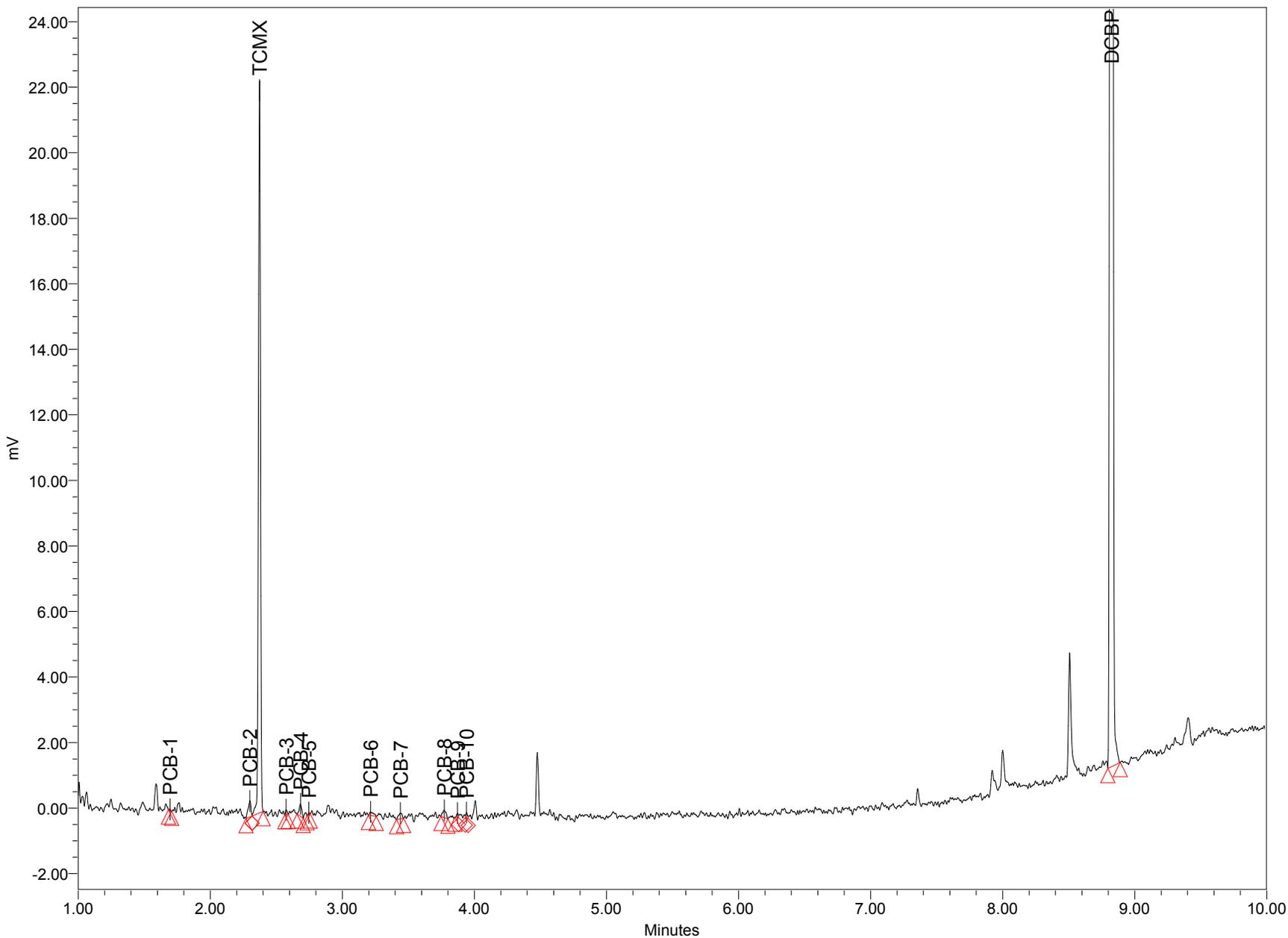
|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11832                  | Sample Amount (L) : | 1.0700                   |
| Sample ID:         | NRS-189.10-T150603082057 | Dilution:           | 5                        |
| Date Acquired:     | 6/5/2015 4:05:59 PM EDT  | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 11:24:20 AM EDT |
| Sample Set Name:   | GC28F_060515a            | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:53:31 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L       | LIMS File ID:       | GC28F-1634-10 [m]        |

**Peak Results**

|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.695          | bb               | 27            |                      |             |             |
| 2  | PCB-2     | 2.299          | BV               | 710           |                      |             |             |
| 3  | TCMX      | 2.373          | VB               | 23804         | 4.876                | 97.5        |             |
| 4  | PCB-3     | 2.574          | BB               | 139           |                      |             |             |
| 5  | PCB-4     | 2.683          | BB               | 524           |                      |             |             |
| 6  | PCB-5     | 2.746          | bb               | 41            |                      |             |             |
| 7  | PCB-6     | 3.214          | bb               | 236           |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 324           |                      |             |             |
| 9  | PCB-8     | 3.771          | bb               | 419           |                      |             |             |
| 10 | PCB-9     | 3.872          | bv               | 109           |                      |             |             |
| 11 | PCB-10    | 3.940          | vV               | 165           |                      |             |             |
| 12 | DCBP      | 8.823          | Bb               | 203411        | 49.803               |             | 99.6        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 1253.1894           | 1.310                | 0.00612     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1221     | 1440.6733           | 5.789                | 0.02705     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A 1221-2   | 731.0644            | 3.673                | 0.01716     | 0.0250   | 0.00873  | NR     |      |
| 4 | A 1221-5   | 1399.3531           | 11.511               | 0.05379     | 0.0250   | 0.00873  | NR     |      |
| 5 | A 1232     | 1058.5908           | 2.417                | 0.01129     | 0.0250   | 0.00873  | NR     |      |
| 6 | A 1232-8/9 | 529.6381            | 2.125                | 0.00993     | 0.0250   | 0.00873  | NR     |      |
| 7 | A 1242     | 1253.1894           | 1.727                | 0.00807     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11832; Sample\_ID NRS-189.10-T150603082057

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060107-07RR1</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-BDUP-T150603081852</u> |
| Sample wt(Dry)/vol: <u>1070 mL</u>                                     | Lab Sample ID: <u>AS11833RR1</u>         |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1635-11</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/06/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.103                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0369                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

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|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS11833RR1               | Sample Amount (L) : | 1.0700                   |
| Sample ID:         | NRS-BDUP-T150603081852   | Dilution:           | 5                        |
| Date Acquired:     | 6/6/2015 10:50:17 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 11:01:57 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:          | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:53:47 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1635-11 [m]        |

**Peak Results**

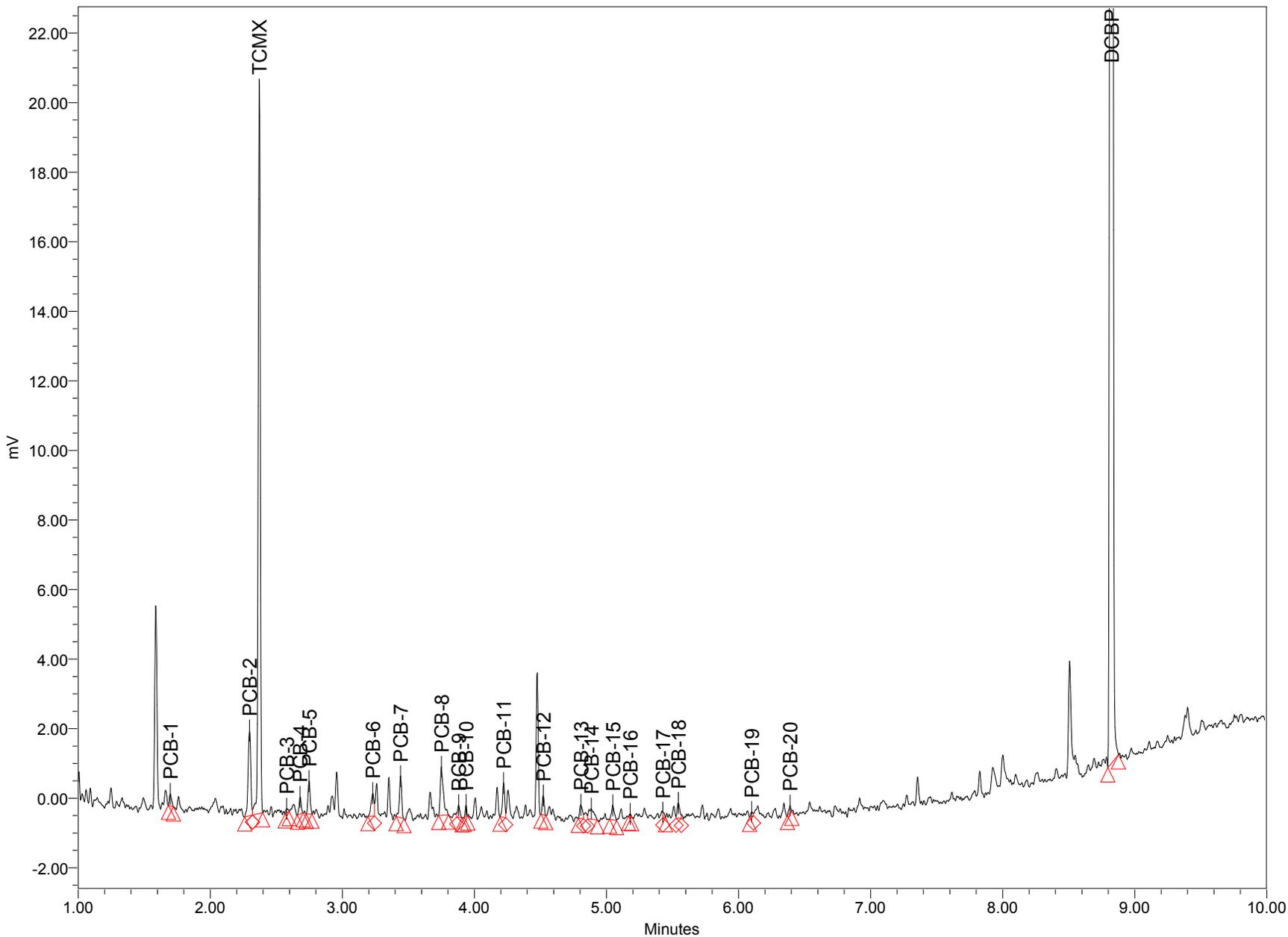
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | bb               | 395           |                      |             |             |
| 2  | PCB-2     | 2.297          | bV               | 3377          |                      |             |             |
| 3  | TCMX      | 2.371          | Vb               | 22661         | 4.637                | 92.7        |             |
| 4  | PCB-3     | 2.578          | bb               | 145           |                      |             |             |
| 5  | PCB-4     | 2.680          | bb               | 557           |                      |             |             |
| 6  | PCB-5     | 2.748          | bb               | 1060          |                      |             |             |
| 7  | PCB-6     | 3.230          | bV               | 995           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 1408          |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 2236          |                      |             |             |
| 10 | PCB-9     | 3.881          | vb               | 406           |                      |             |             |
| 11 | PCB-10    | 3.936          | bb               | 263           |                      |             |             |
| 12 | PCB-11    | 4.221          | bV               | 1113          |                      |             |             |
| 13 | PCB-12    | 4.521          | bb               | 559           |                      |             |             |
| 14 | PCB-13    | 4.806          | bv               | 570           |                      |             |             |
| 15 | PCB-14    | 4.885          | vb               | 839           |                      |             |             |
| 16 | PCB-15    | 5.047          | bb               | 613           |                      |             |             |
| 17 | PCB-16    | 5.180          | bb               | 60            |                      |             |             |
| 18 | PCB-17    | 5.427          | vb               | 124           |                      |             |             |
| 19 | PCB-18    | 5.544          | Vv               | 602           |                      |             |             |
| 20 | PCB-19    | 6.100          | bv               | 151           |                      |             |             |
| 21 | PCB-20    | 6.390          | bb               | 220           |                      |             |             |
| 22 | DCBP      | 8.823          | bb               | 183767        | 44.665               |             | 89.3        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 5307.8229           | 6.133                | 0.02866     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 5533.9413           | 22.054               | 0.10306     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2156.5901           | 9.631                | 0.04500     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 4474.2685           | 35.880               | 0.16766     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 5372.3945           | 12.307              | 0.05751     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 2731.0960           | 12.931              | 0.06042     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 5307.8229           | 7.894               | 0.03689     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 3693.3605           | 4.477               | 0.02092     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 1967.3736           | 4.073               | 0.01903     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 2241.3814           | 5.970               | 0.02790     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1156.8953           | 1.311               | 0.00612     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 431.2416            | 1.012               | 0.00473     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 786.0964            | 1.384               | 0.00647     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 936.7025            | 1.419               | 0.00663     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 220.1928            | 0.066               | 0.00031     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 220.1928            | 0.666               | 0.00311     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 220.1928            |                     |             |          |          | NR     |      |



SampleName AS11833RR1; Sample\_ID NRS-BDUP-T150603081852

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |               |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/23/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1242 50 PPB              | CS420604A   | GC28F-1633-22        | 06/04/2015 18:03:19        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150604B08   | GC28F-1633-23        | 06/04/2015 18:17:21        | 2.37                       | 8.82 |
| 58   | PBLK-07(METHOD BLANK)     | AS11838BRR1 | GC28F-1633-28        | 06/04/2015 20:03:30        | 2.37                       | 8.82 |
| 59   | LCS-07(LAB CONTROL SPIKE) | AS11838LRR1 | GC28F-1633-29        | 06/04/2015 20:17:30        | 2.37                       | 8.82 |
| 60   | A1254 50 PPB              | CS540604A   | GC28F-1633-30        | 06/04/2015 20:31:19        | 2.37                       | 8.82 |
| 61   | HEXANE BLANK-SURR         | 150604B11   | GC28F-1633-31        | 06/04/2015 20:45:18        | 2.37                       | 8.82 |
| 62   | A1232 50 PPB              | CS320605A   | GC28F-1634-5         | 06/05/2015 14:42:34        | 2.38                       | 8.82 |
| 63   | HEXANE BLANK-SURR         | 150605B04   | GC28F-1634-6         | 06/05/2015 14:56:36        | 2.37                       | 8.82 |
| 64   | NRS-162.90-T150603081831  | AS11829     | GC28F-1634-7         | 06/05/2015 15:24:34        | 2.37                       | 8.82 |
| 65   | NRS-189.10-T150603082057  | AS11832     | GC28F-1634-10        | 06/05/2015 16:05:59        | 2.37                       | 8.82 |
| 66   | FRS-FDBL-T150603120634    | AS11827     | GC28F-1634-12        | 06/05/2015 16:33:46        | 2.37                       | 8.82 |
| 67   | A1242 50 PPB              | CS420605A   | GC28F-1634-15        | 06/05/2015 17:15:36        | 2.37                       | 8.82 |
| 68   | HEXANE BLANK-SURR         | 150605B06   | GC28F-1634-16        | 06/05/2015 17:29:14        | 2.37                       | 8.82 |
| 69   | A1221 50 PPB              | CS210606A   | GC28F-1635-7         | 06/06/2015 08:56:32        | 2.37                       | 8.82 |
| 70   | HEXANE BLANK-SURR         | 150606B05   | GC28F-1635-8         | 06/06/2015 09:10:23        | 2.37                       | 8.82 |
| 71   | NRS-186.00-T150603081924  | AS11830RR1  | GC28F-1635-9         | 06/06/2015 10:22:42        | 2.38                       | 8.83 |
| 72   | NRS-187.70-T150603082254  | AS11831RR1  | GC28F-1635-10        | 06/06/2015 10:36:39        | 2.37                       | 8.82 |
| 73   | NRS-BDUP-T150603081852    | AS11833RR1  | GC28F-1635-11        | 06/06/2015 10:50:17        | 2.37                       | 8.82 |
| 74   | FRS-STWA-T150603120444    | AS11828RR1  | GC28F-1635-12        | 06/06/2015 11:04:17        | 2.37                       | 8.82 |
| 75   | A1232 50 PPB              | CS320606A   | GC28F-1635-13        | 06/06/2015 11:18:27        | 2.37                       | 8.82 |
| 76   | HEXANE BLANK-SURR         | 150606B06   | GC28F-1635-14        | 06/06/2015 11:32:33        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/23/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060107

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.548               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.780               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.303              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/23/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060107

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.807              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table  
Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

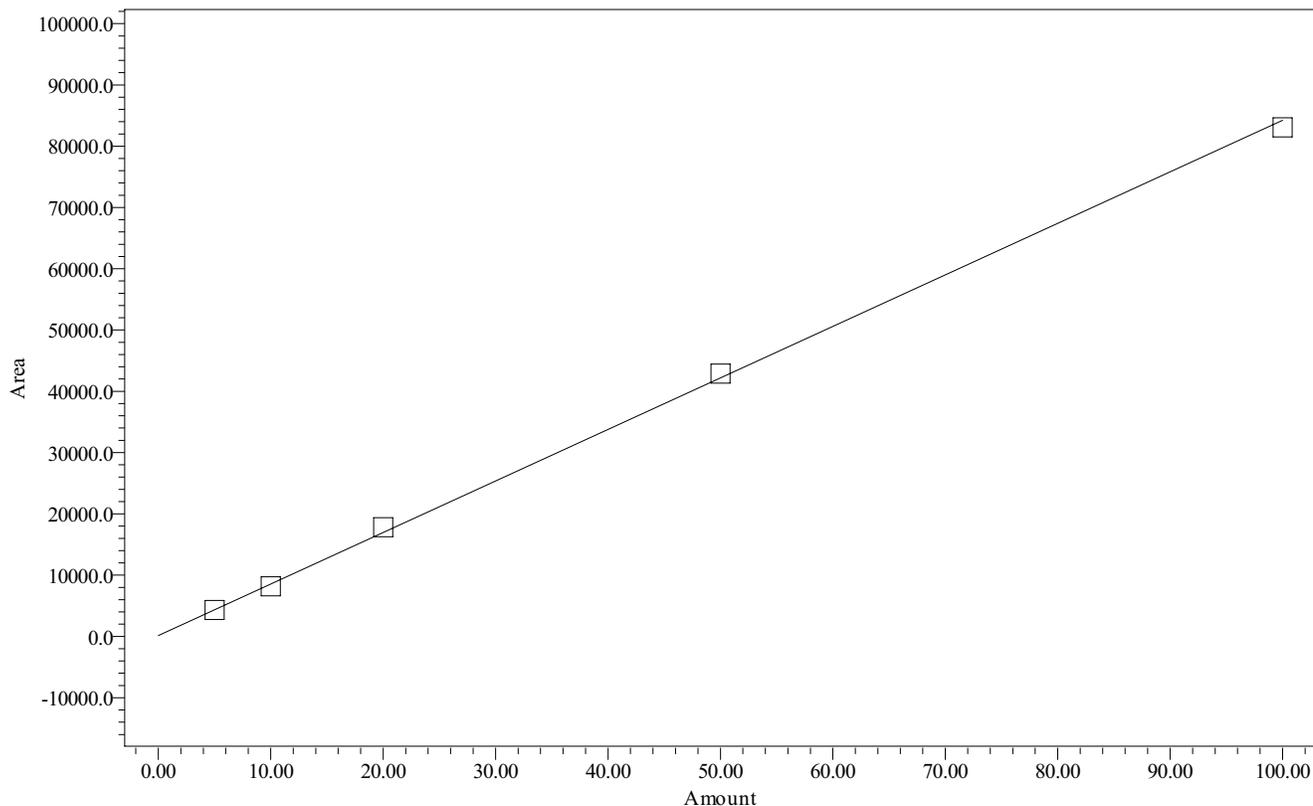
**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1016                    | Coefficient constant A:           | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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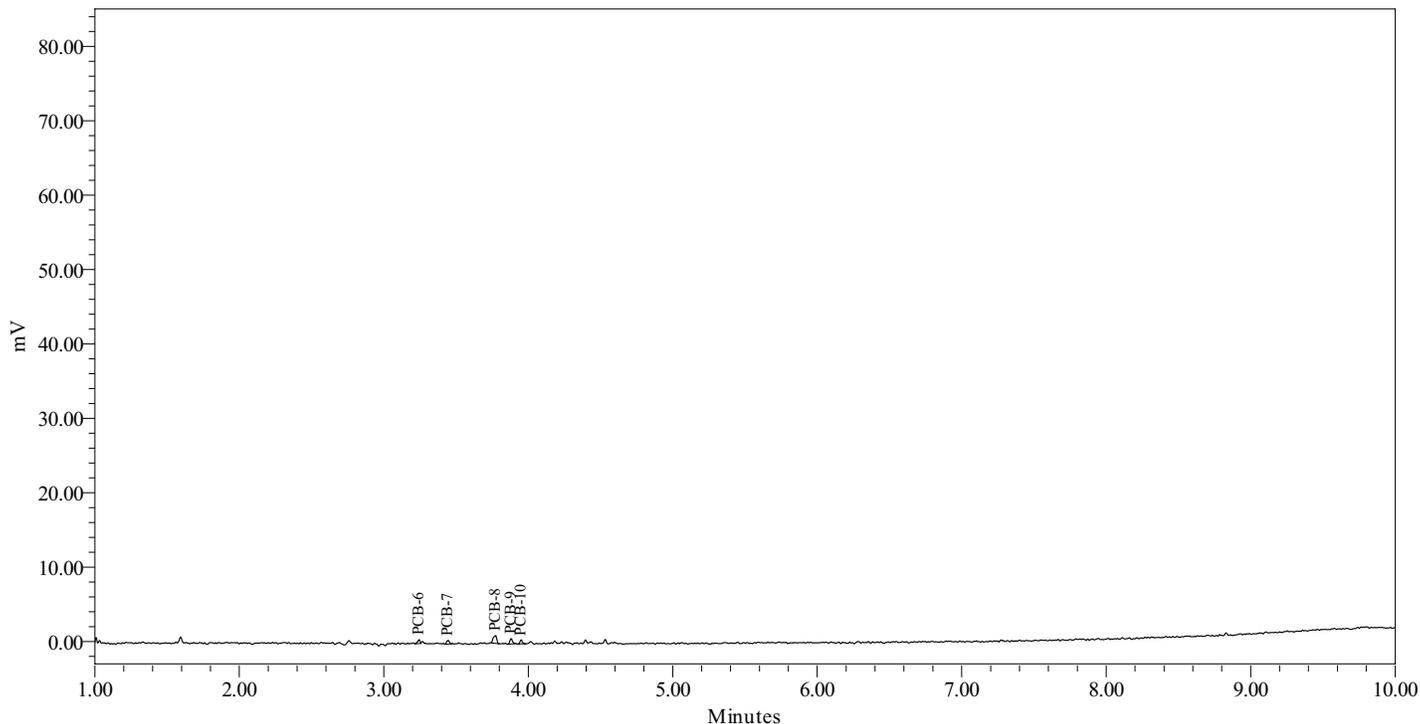
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 581           |
| 2 PCB-7   | 3.443          | bb               | 610           |
| 3 PCB-8   | 3.772          | bb               | 1737          |
| 4 PCB-9   | 3.881          | bb               | 833           |
| 5 PCB-10  | 3.950          | bb               | 550           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 4310                | 5.000                |
| 2 A1232     | 3729                |                      |
| 3 A1232-8/9 | 1159                |                      |
| 4 A1242     | 4310                |                      |



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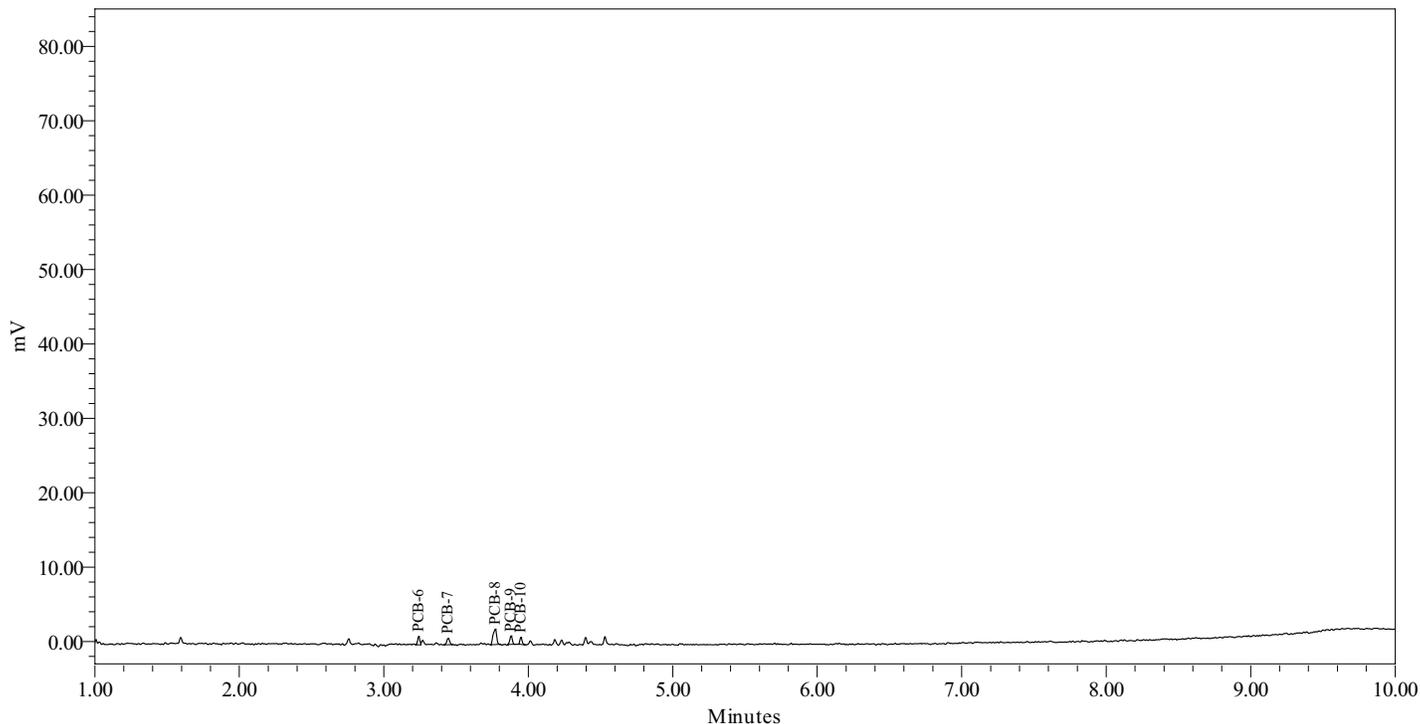
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 1182          |
| 2 | PCB-7     | 3.445          | bb               | 1151          |
| 3 | PCB-8     | 3.771          | bb               | 3544          |
| 4 | PCB-9     | 3.881          | bb               | 1340          |
| 5 | PCB-10    | 3.949          | bb               | 974           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 8191                | 10.000               |
| 2 | A1232      | 7009                |                      |
| 3 | A1232-8/9  | 2125                |                      |
| 4 | A1242      | 8191                |                      |



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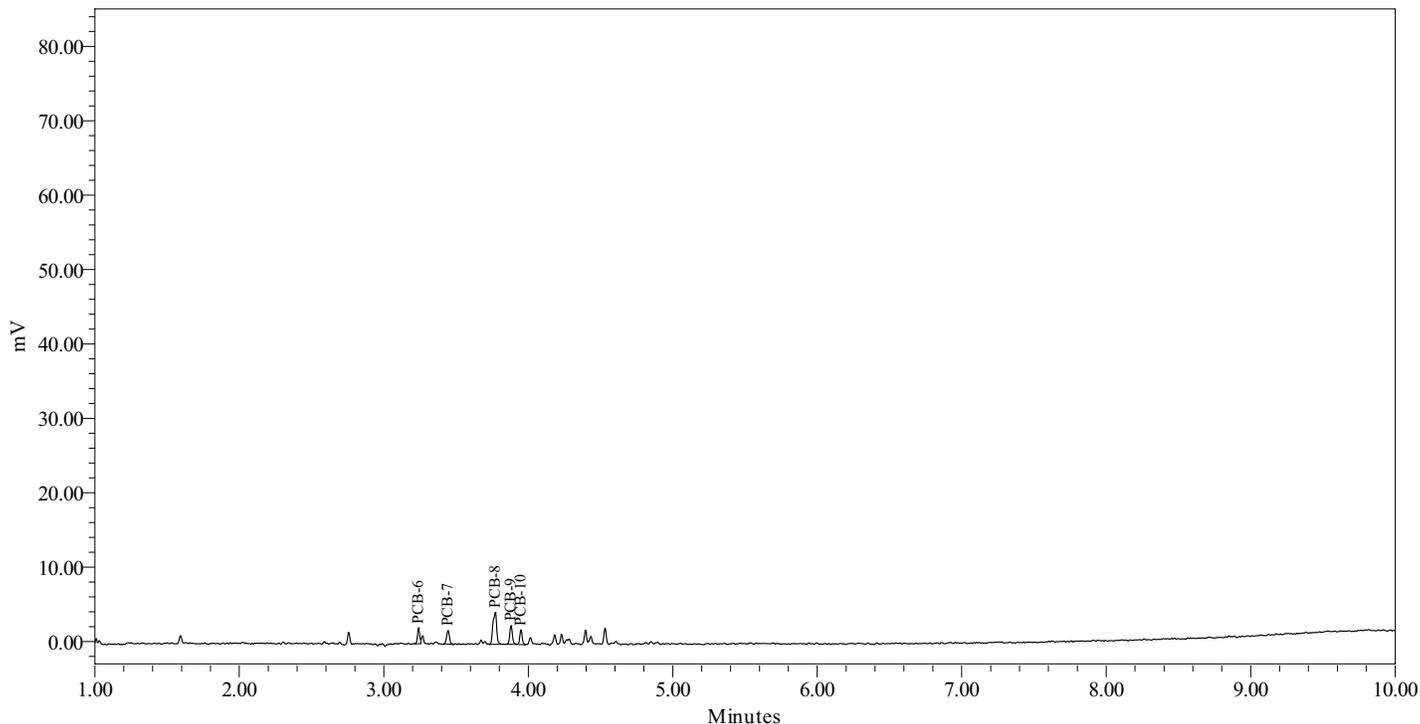
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 2349          |
| 2 | PCB-7     | 3.444          | bb               | 2467          |
| 3 | PCB-8     | 3.771          | bb               | 7692          |
| 4 | PCB-9     | 3.880          | bV               | 3110          |
| 5 | PCB-10    | 3.949          | Vb               | 2214          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 17832               | 20.000               |
| 2 | A1232      | 15483               |                      |
| 3 | A1232-8/9  | 4681                |                      |
| 4 | A1242      | 17832               |                      |



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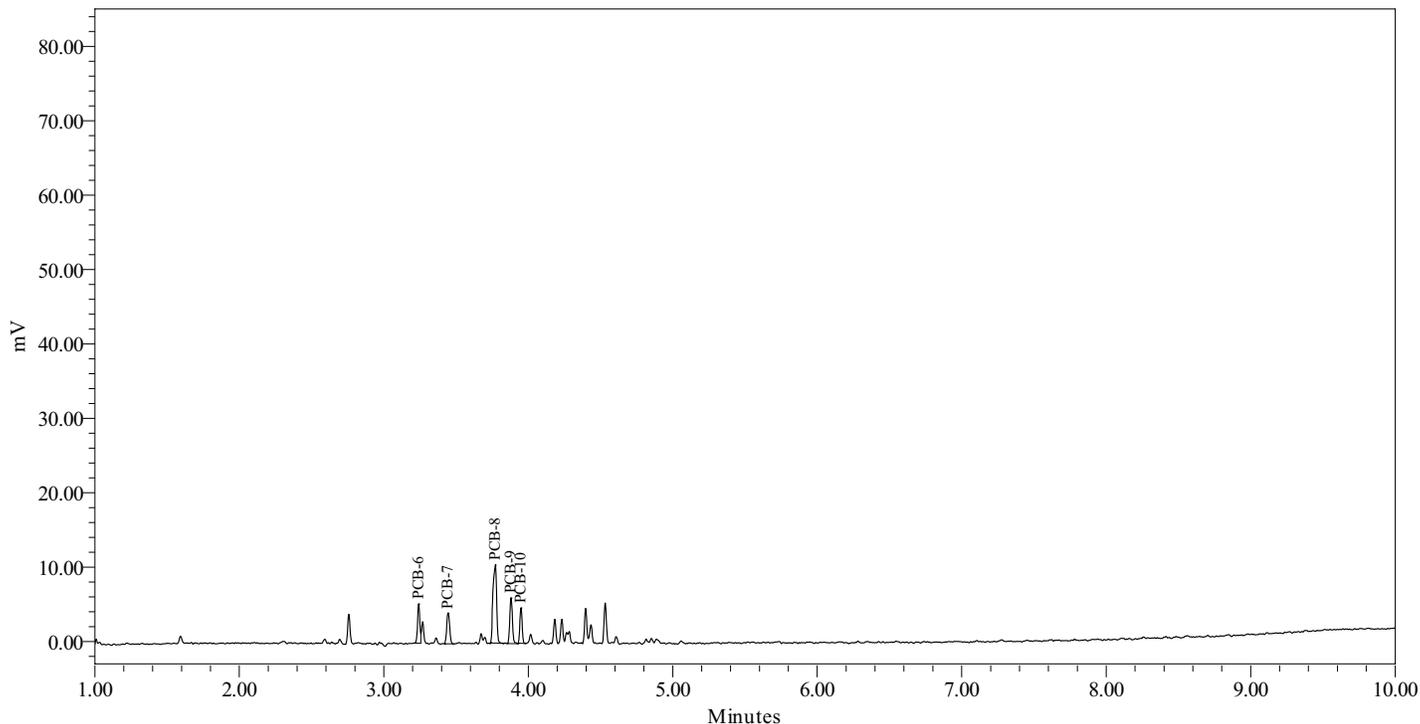
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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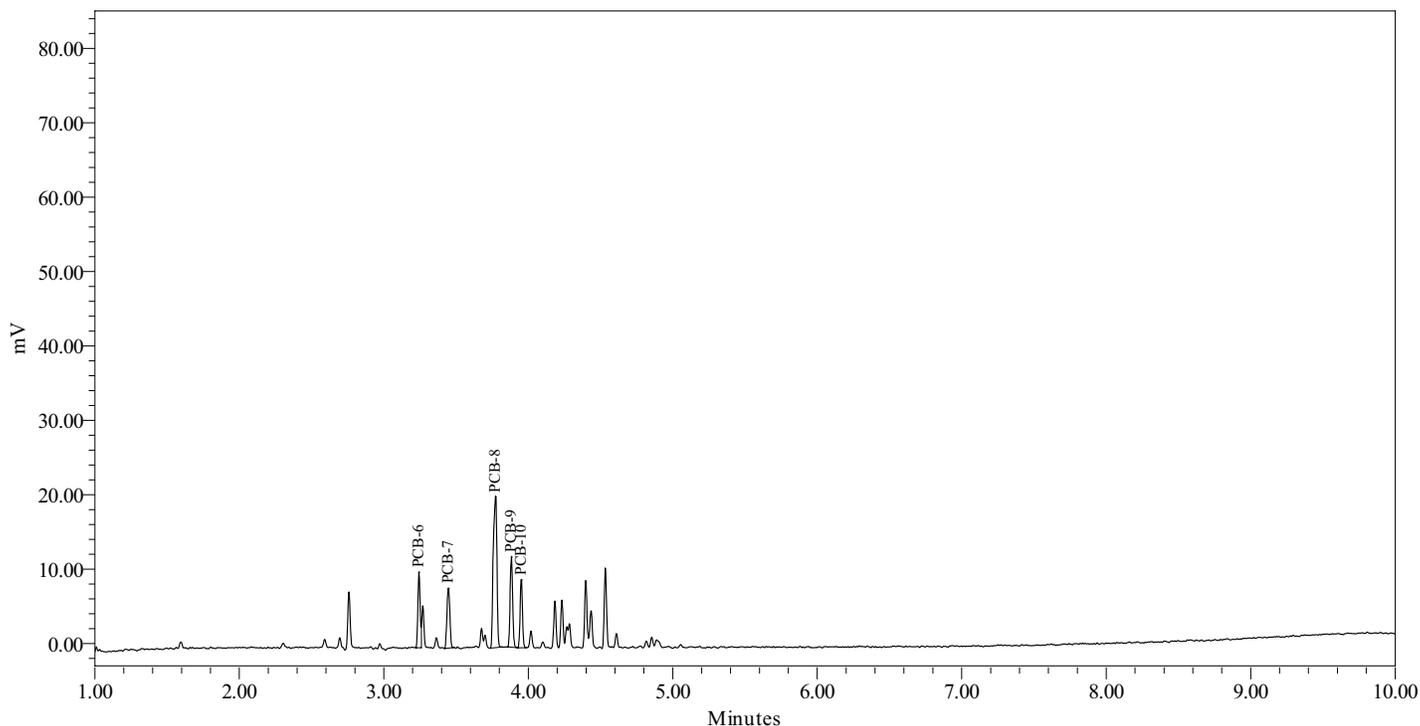
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

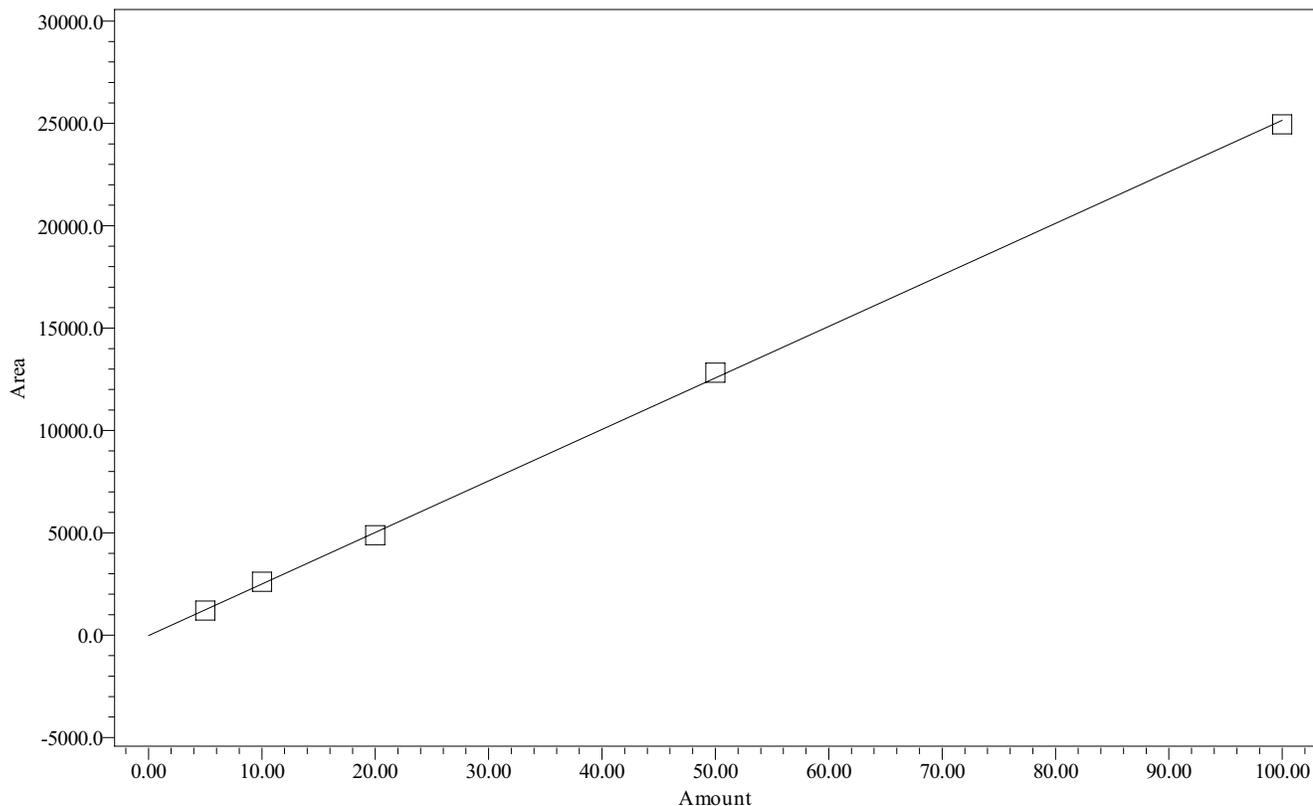
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221                    | Coefficient constant A:                       | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

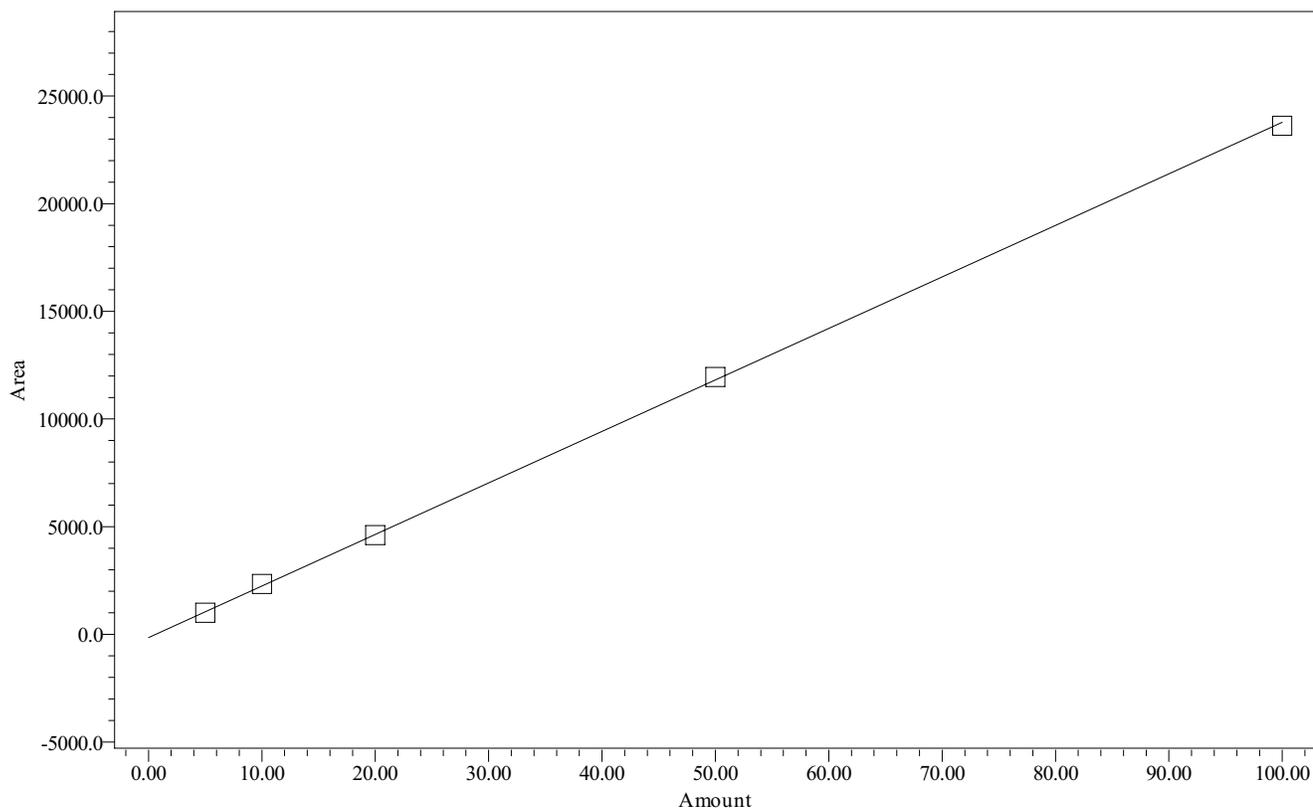
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

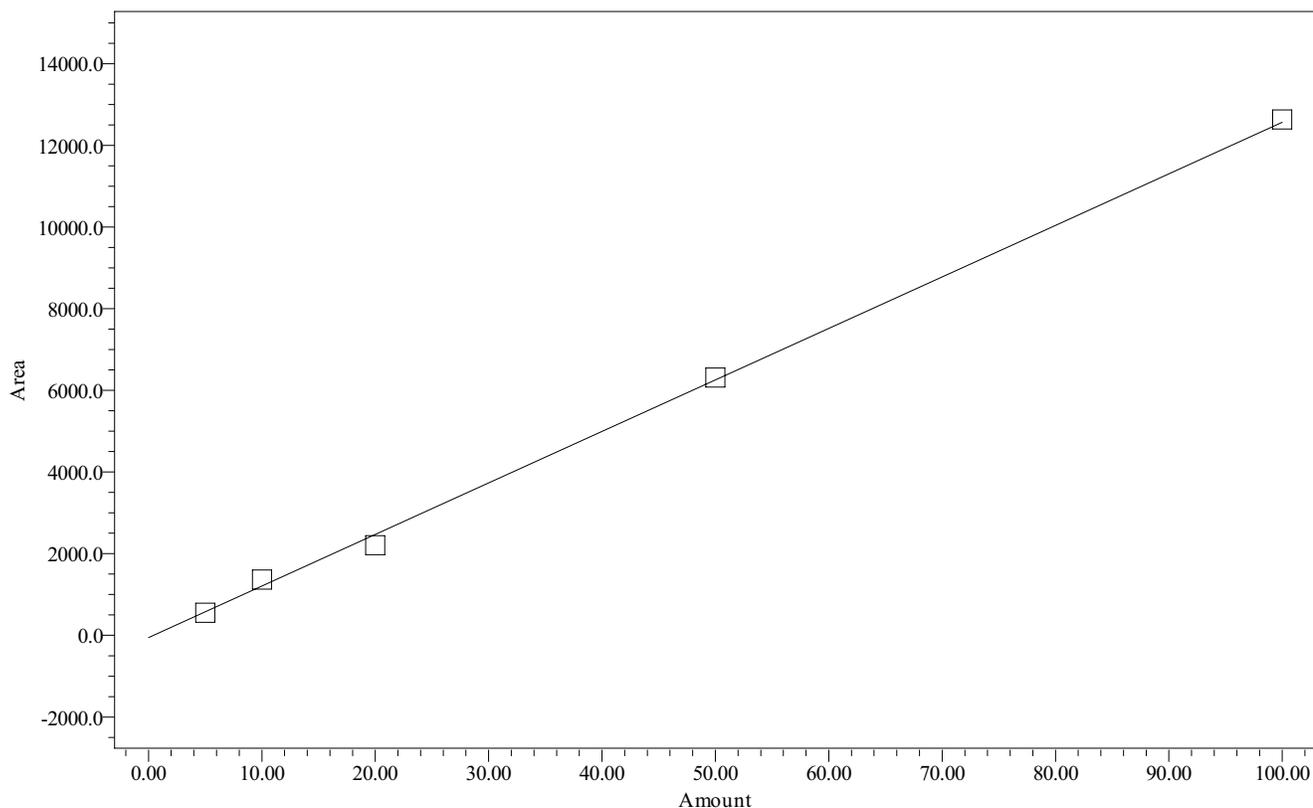
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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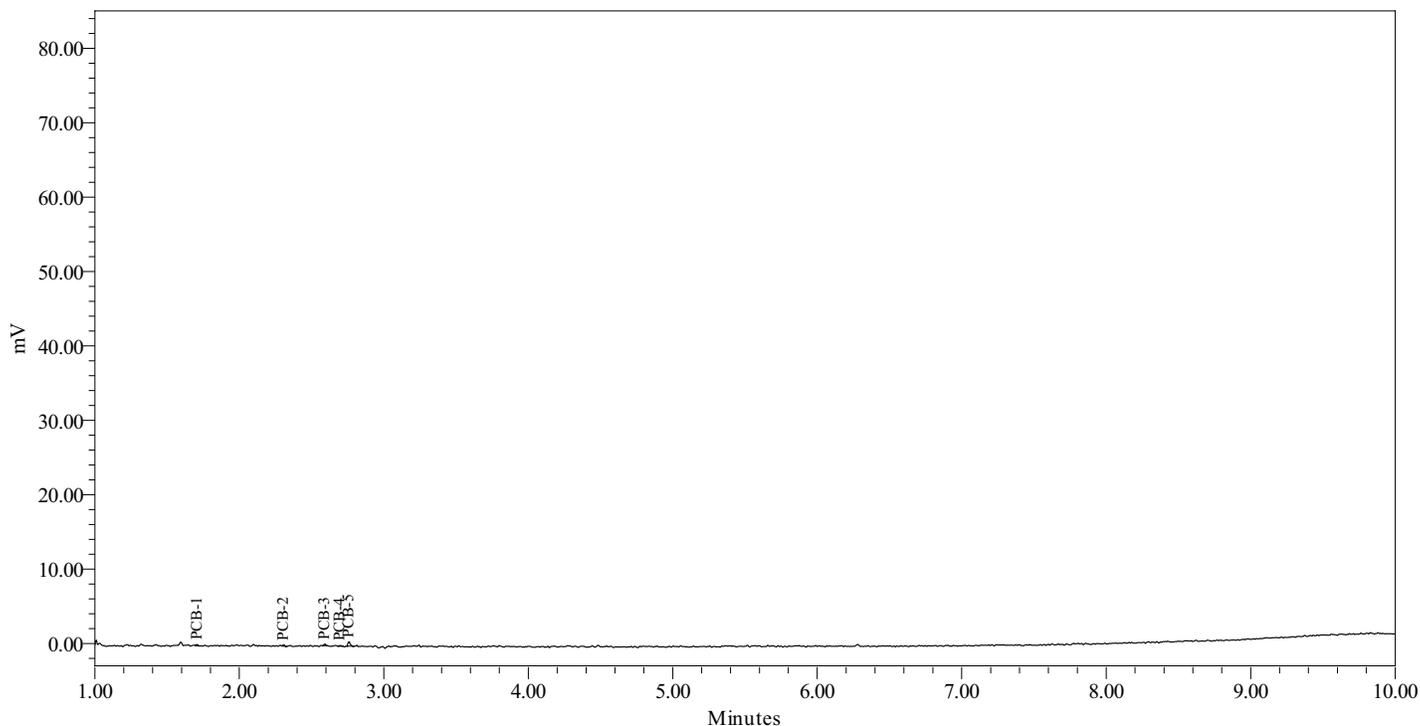
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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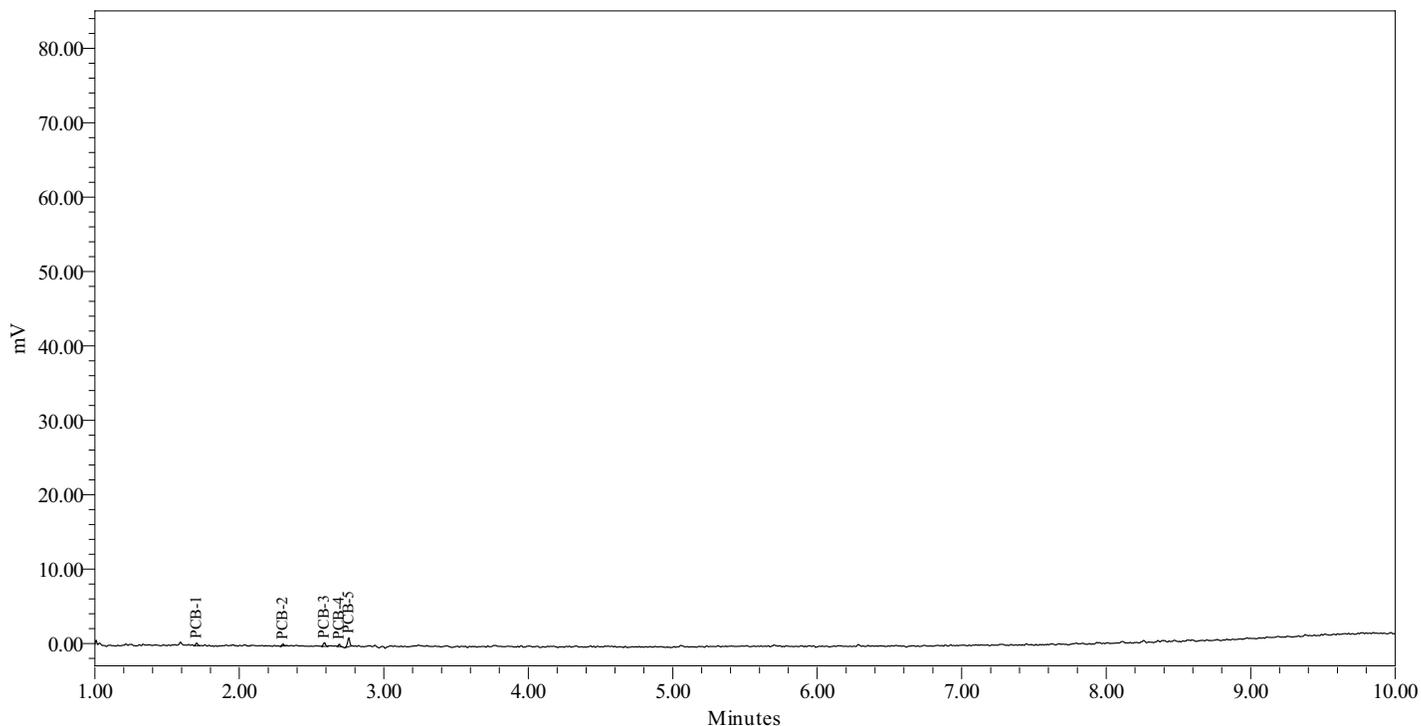
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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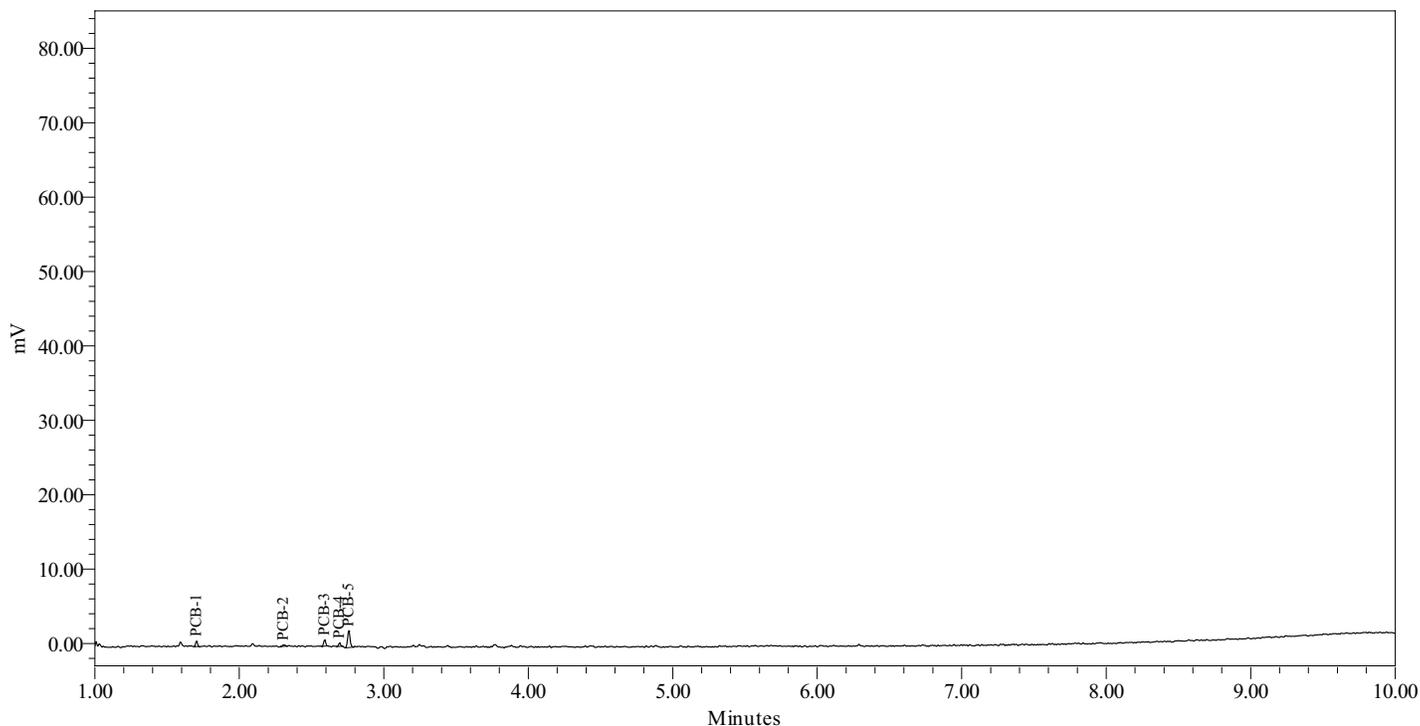
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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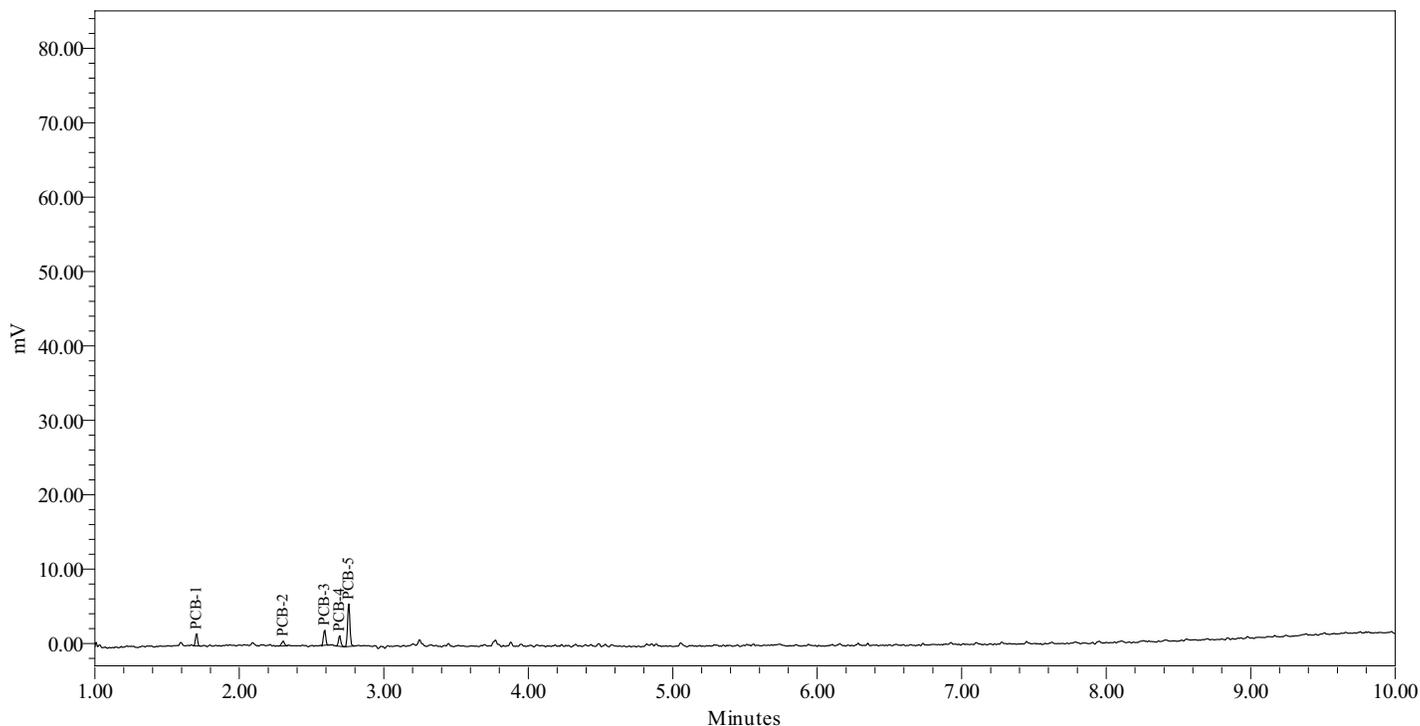
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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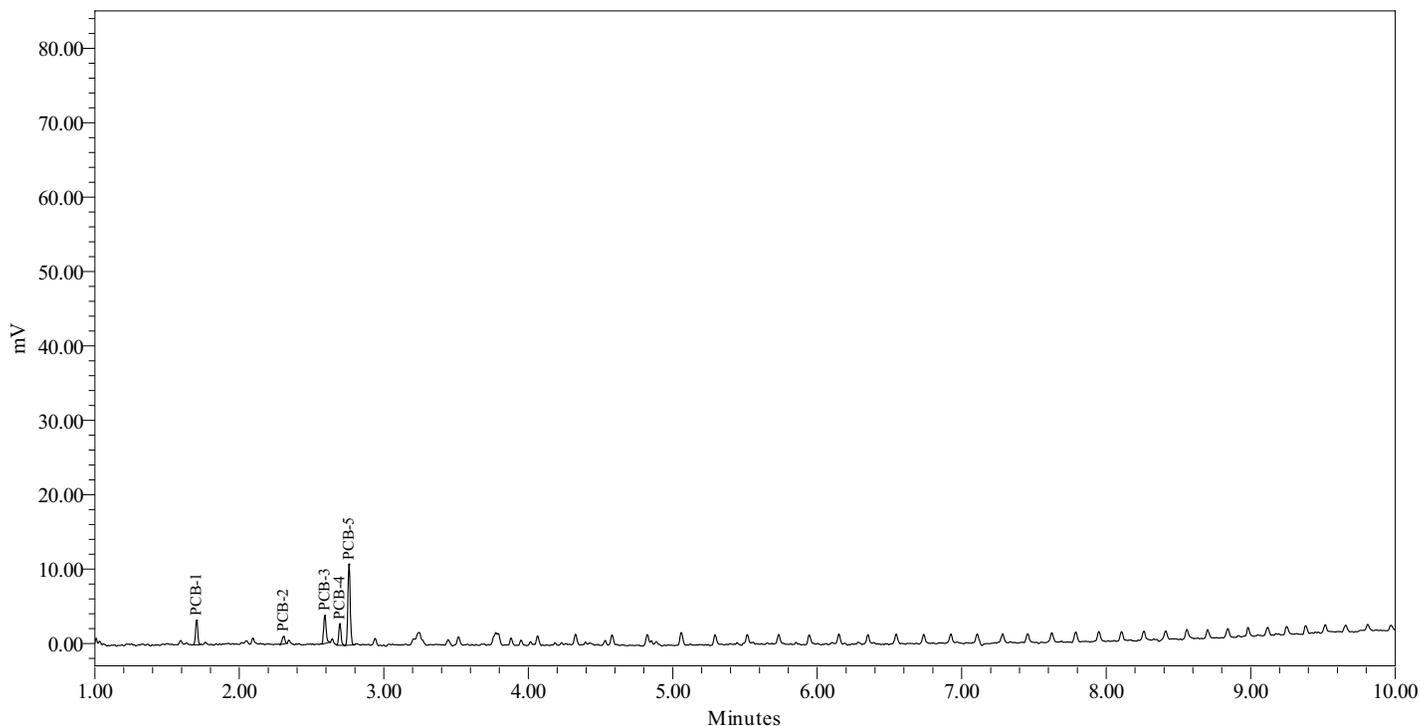
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

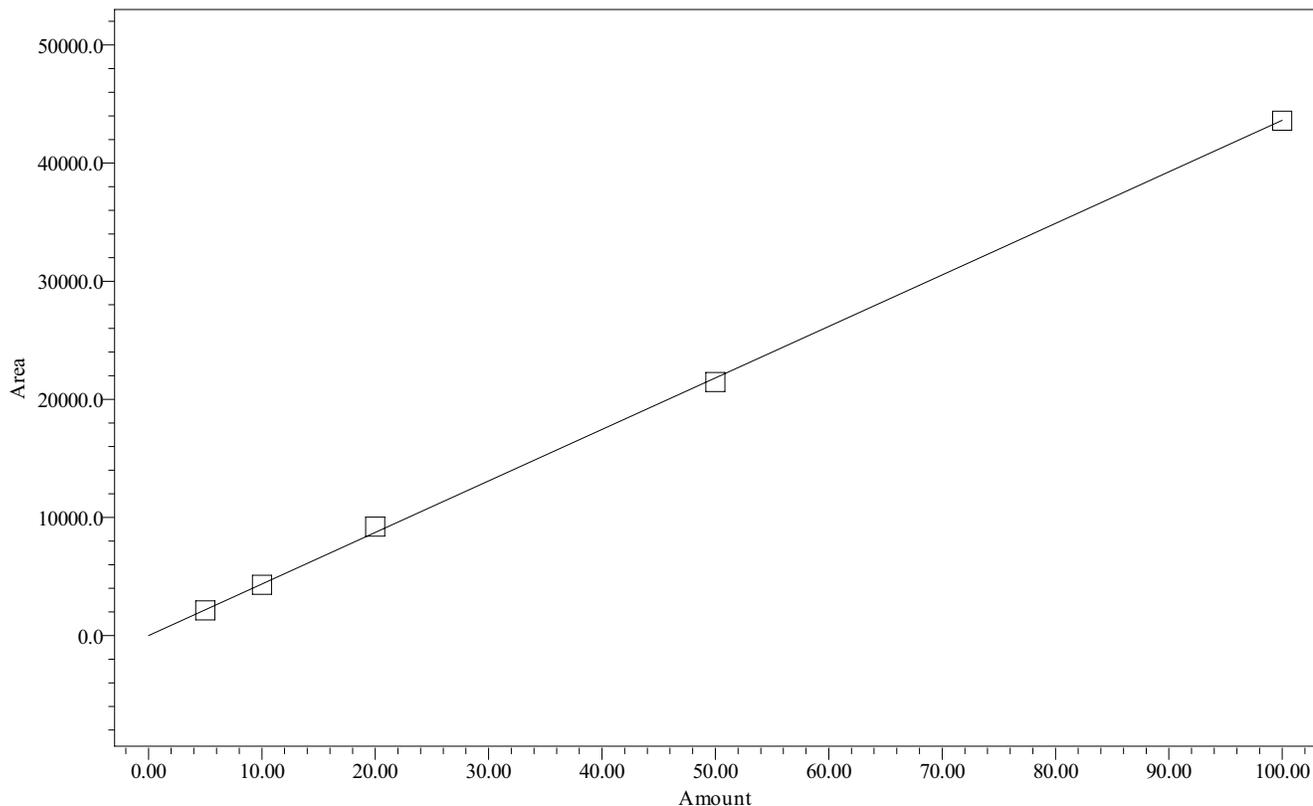
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

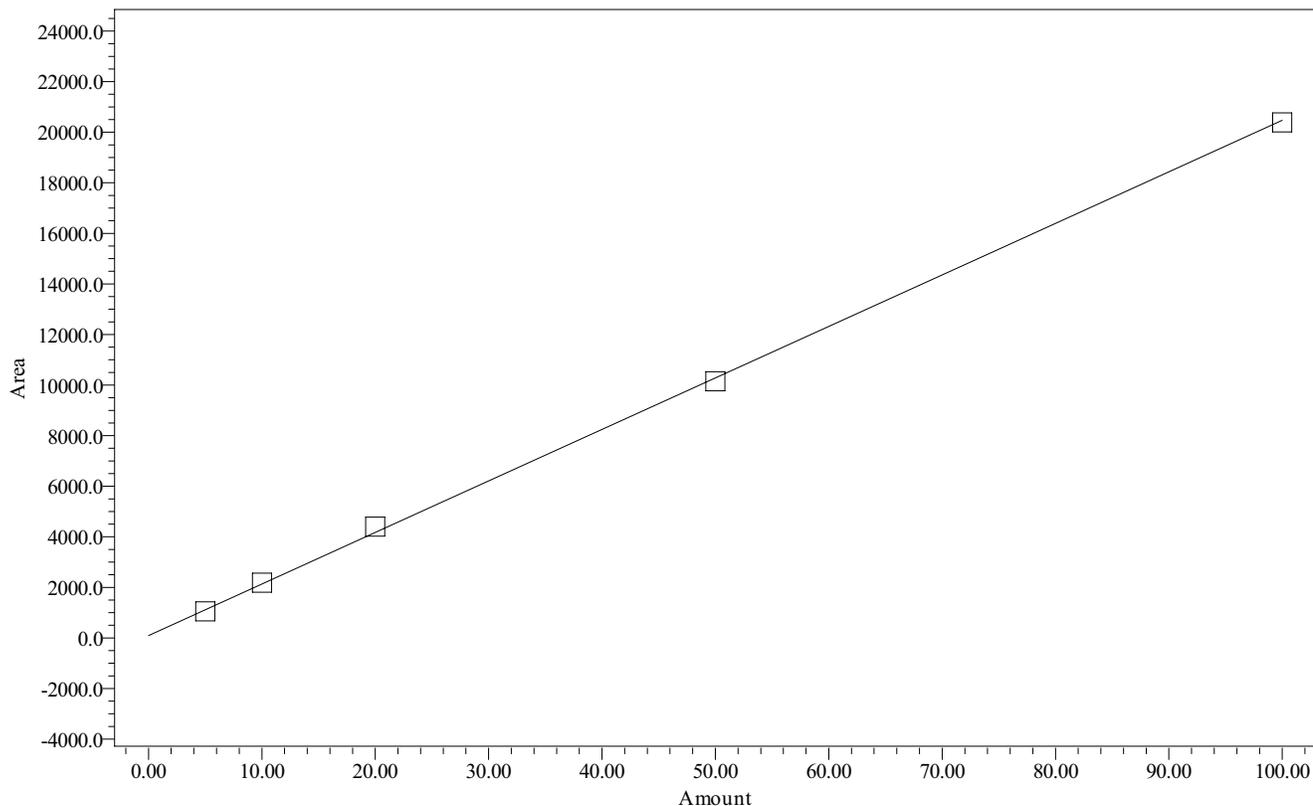
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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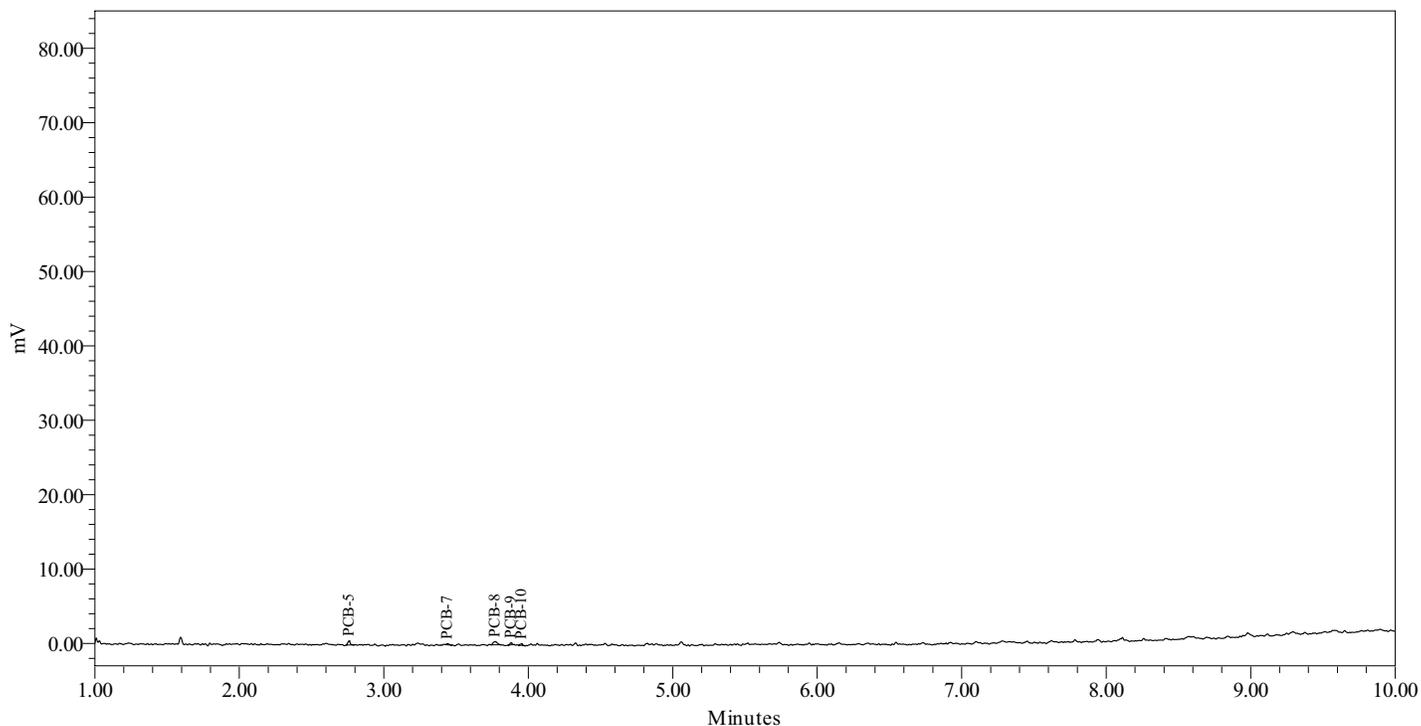
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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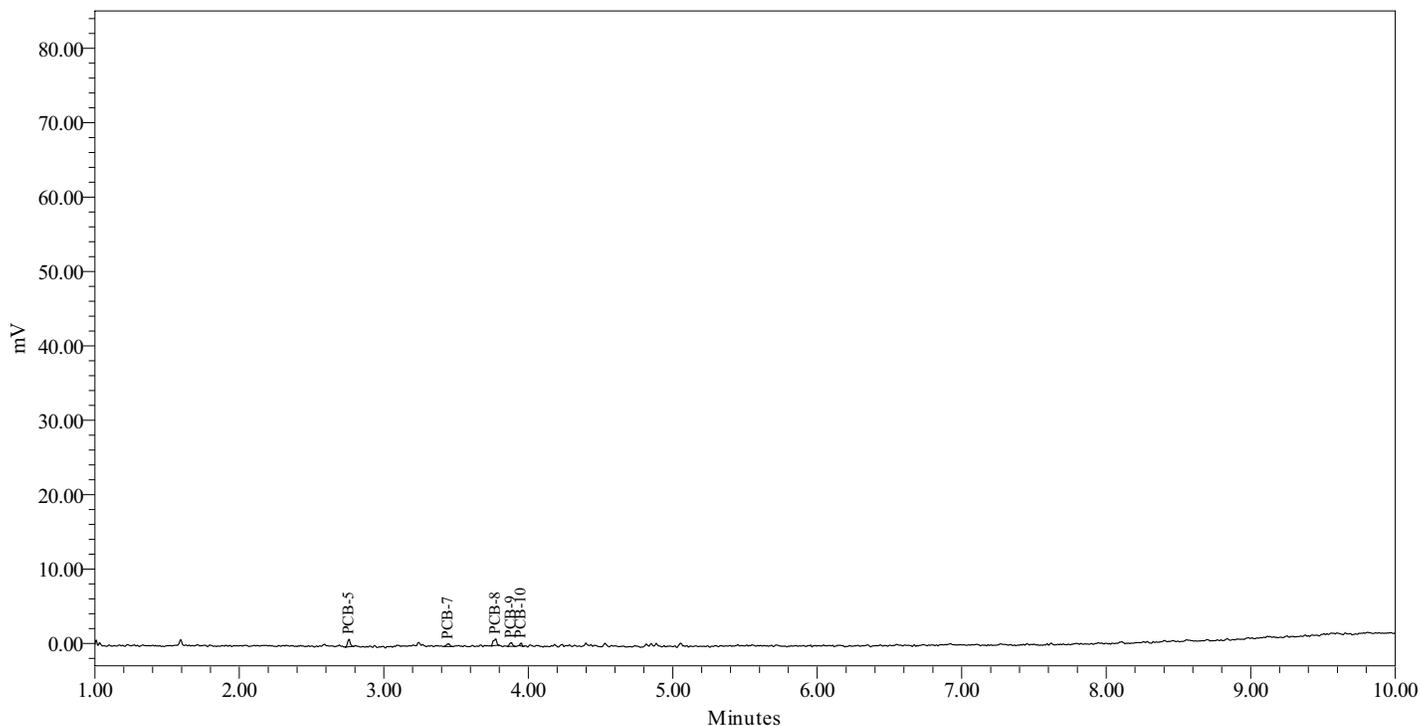
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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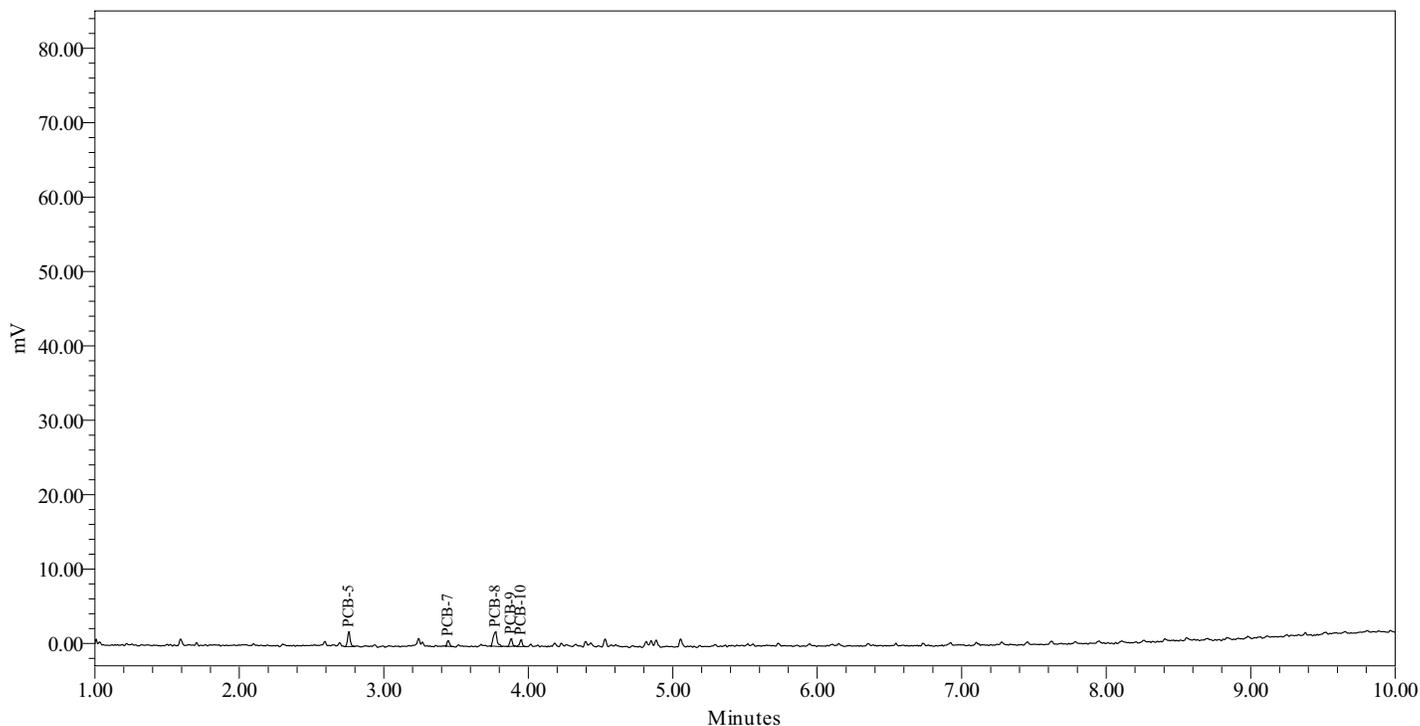
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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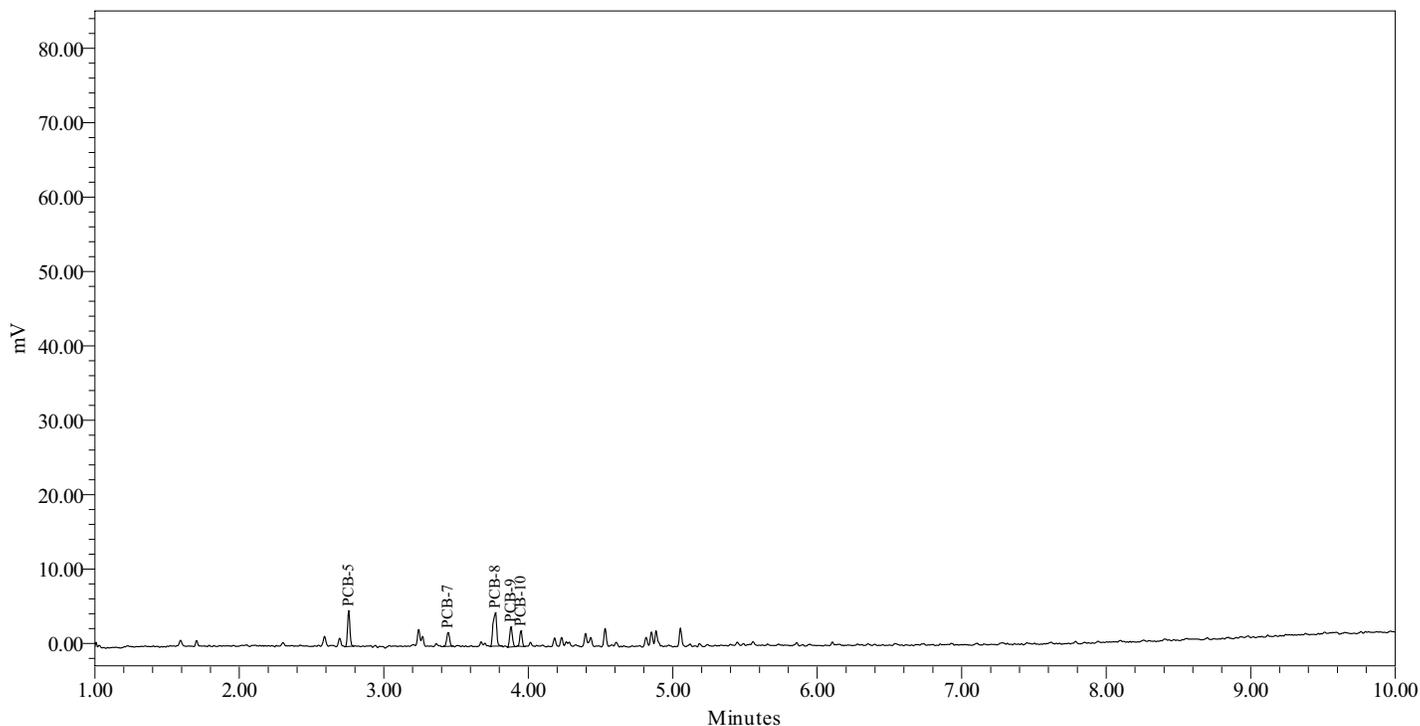
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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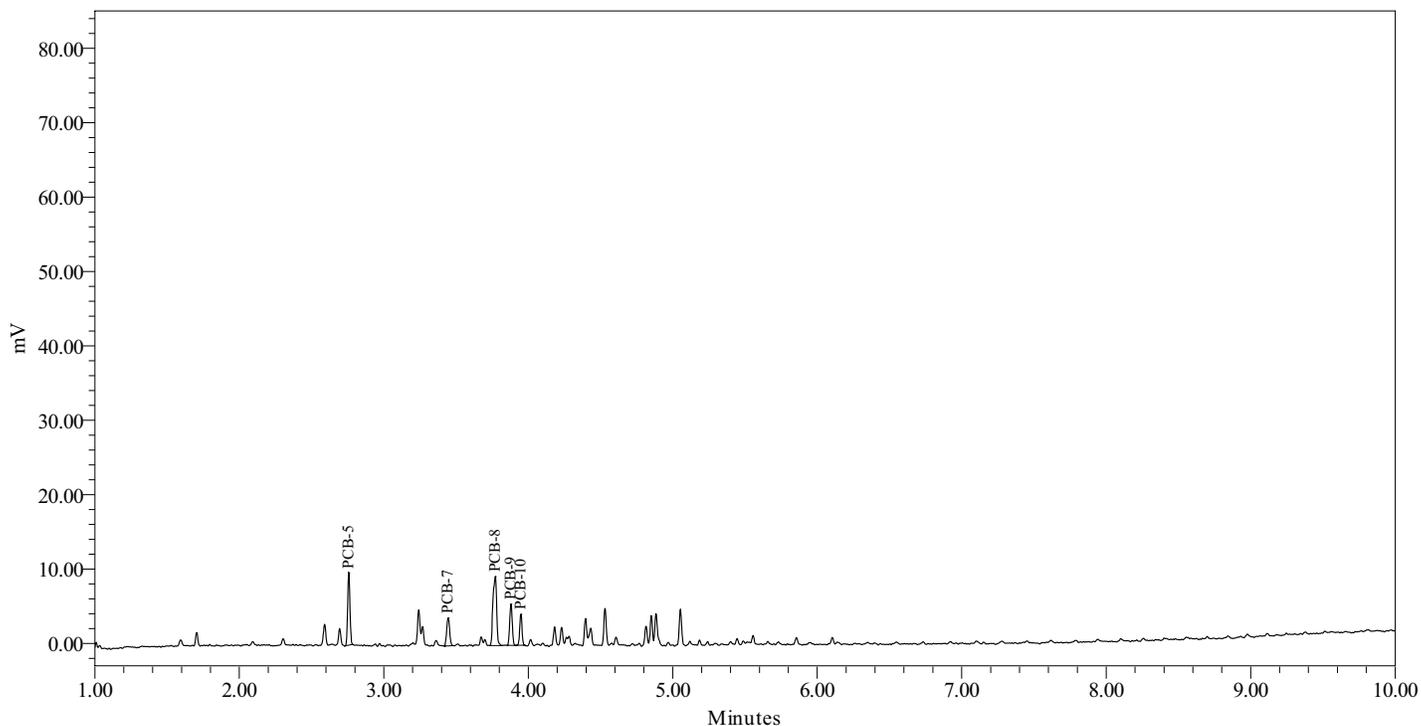
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

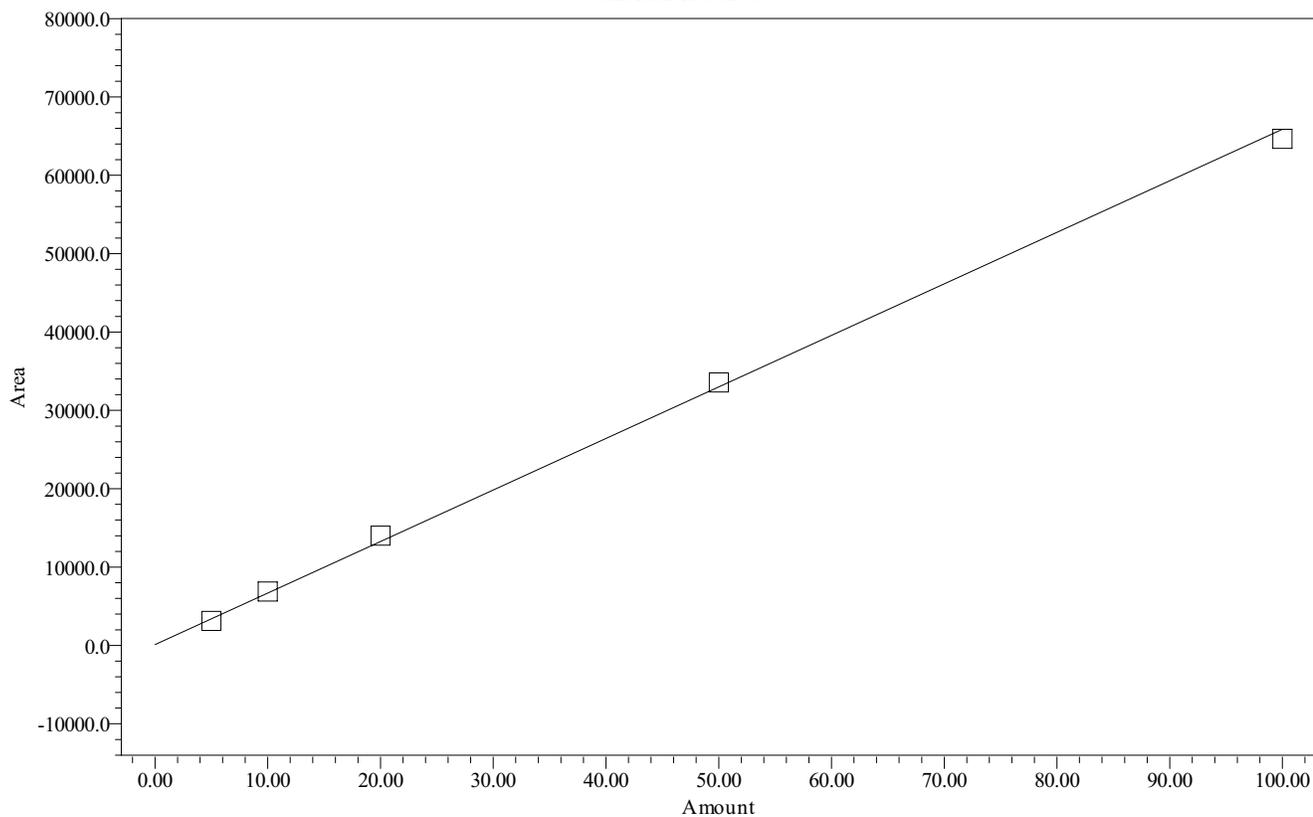
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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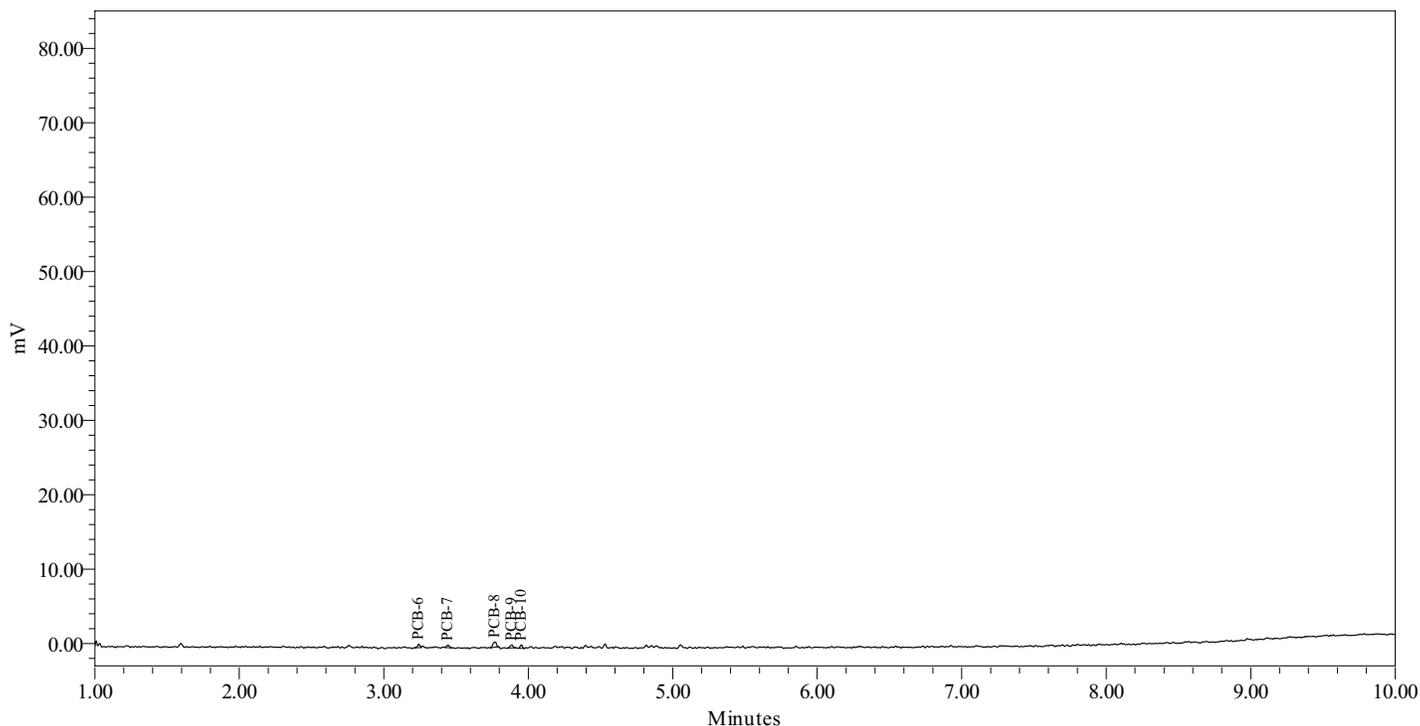
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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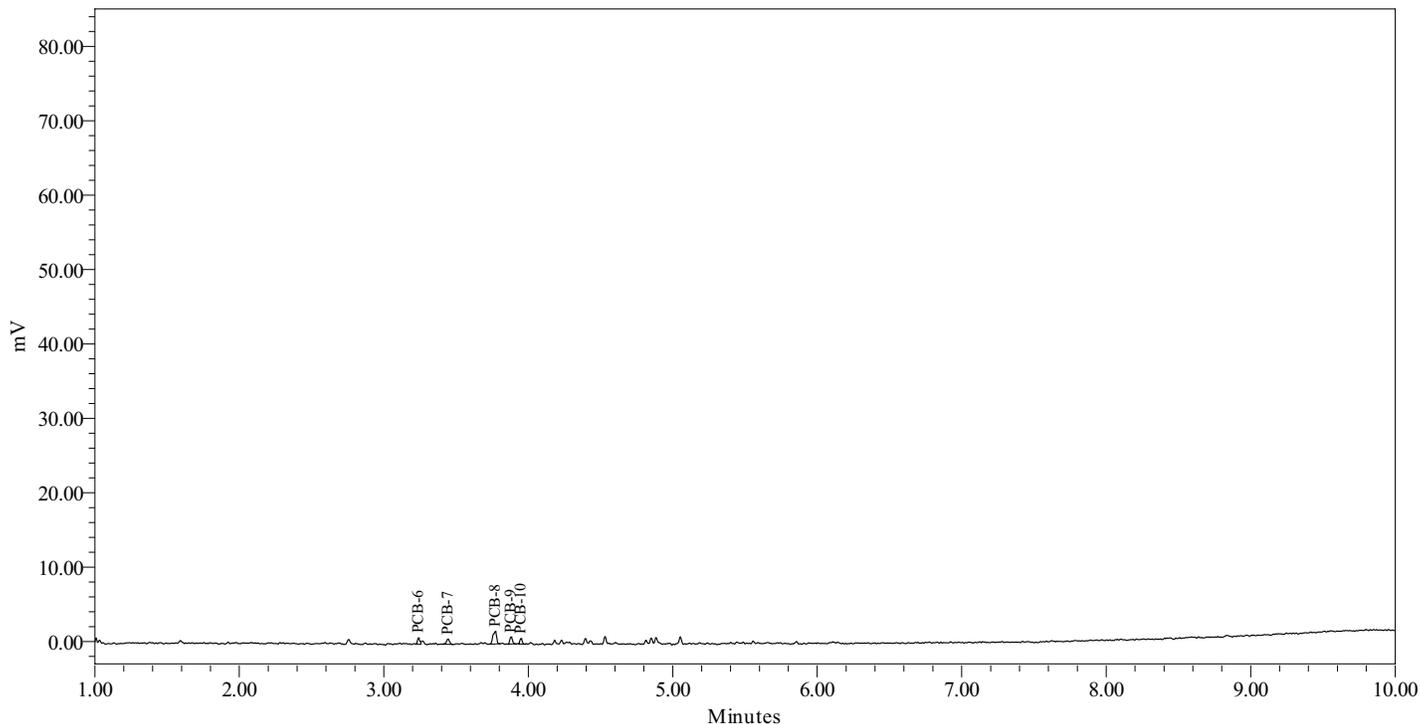
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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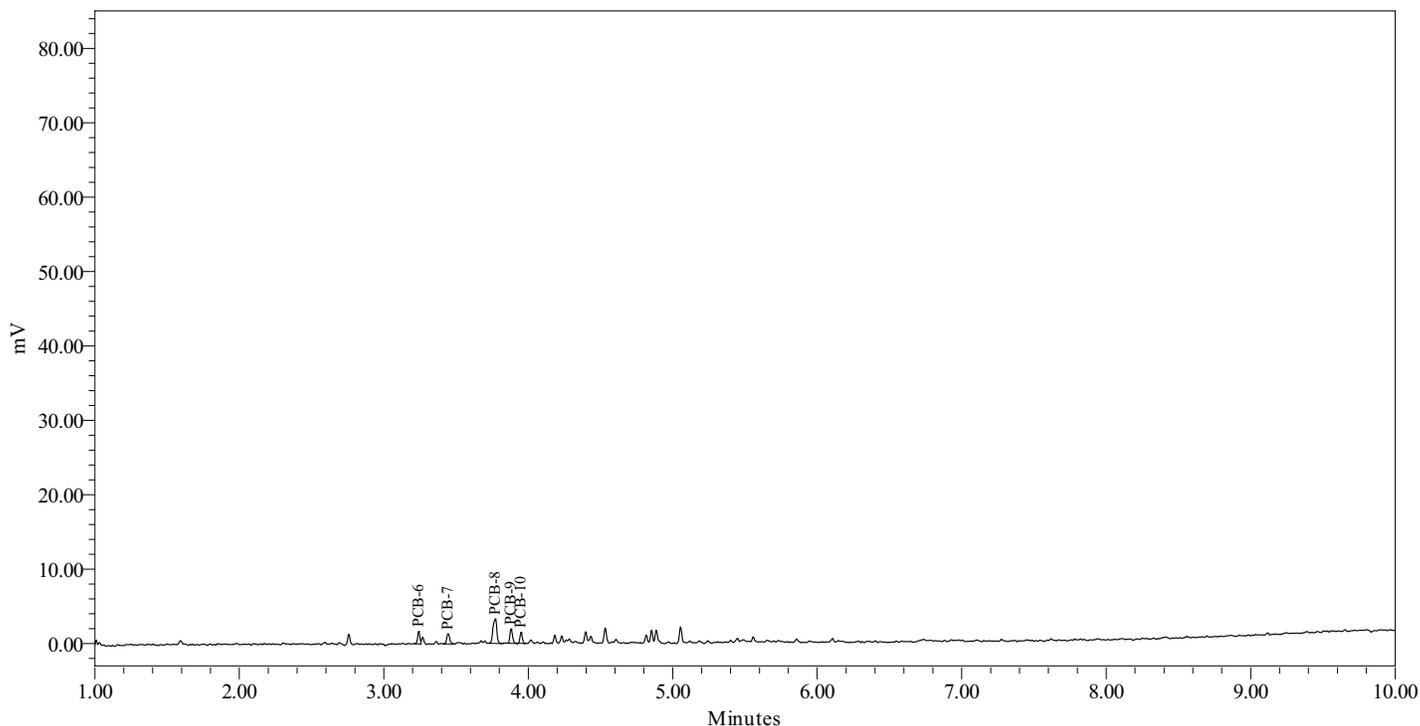
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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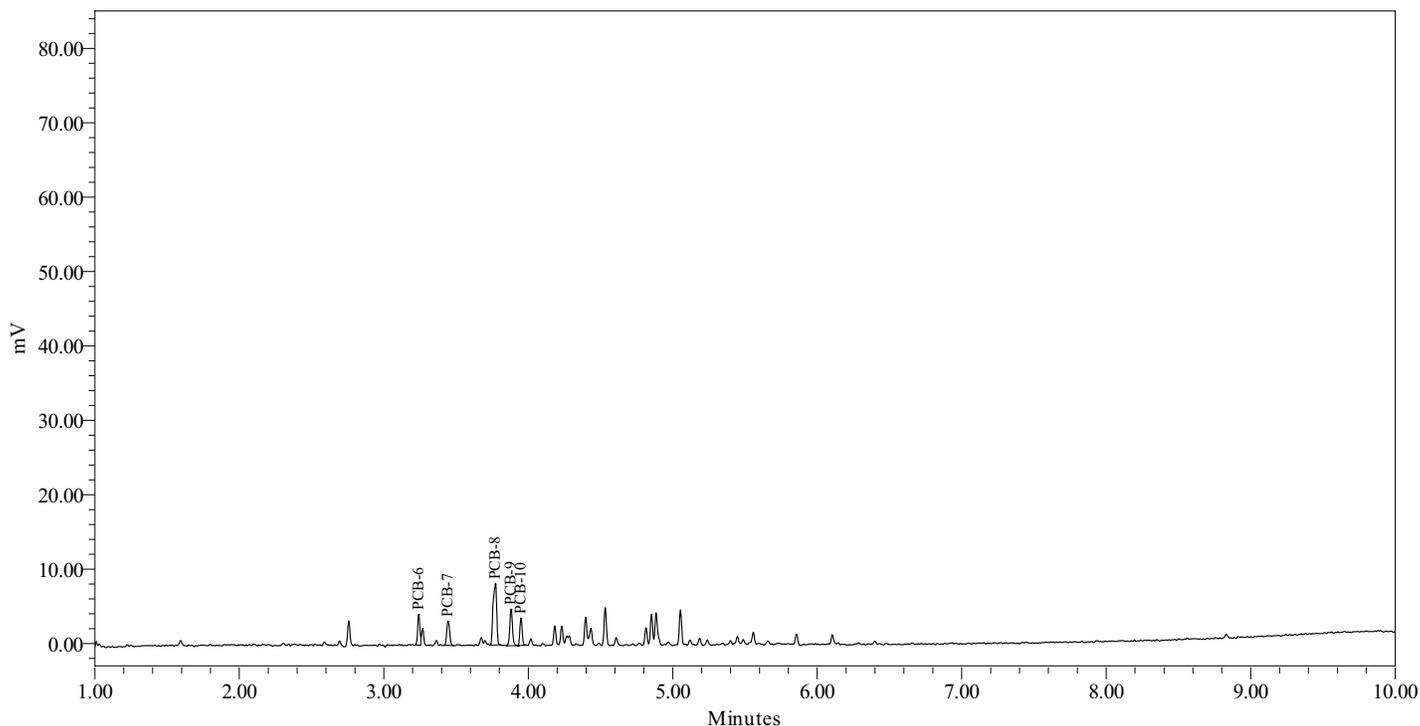
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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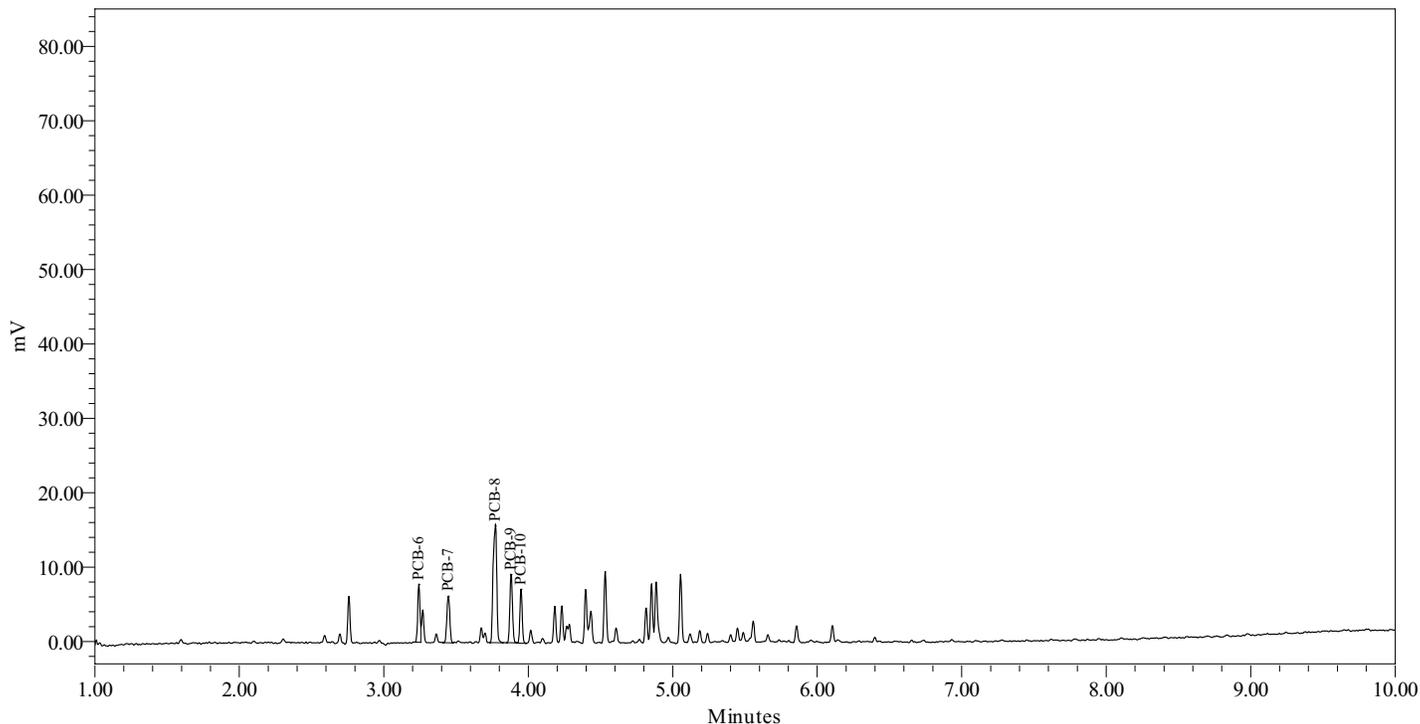
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

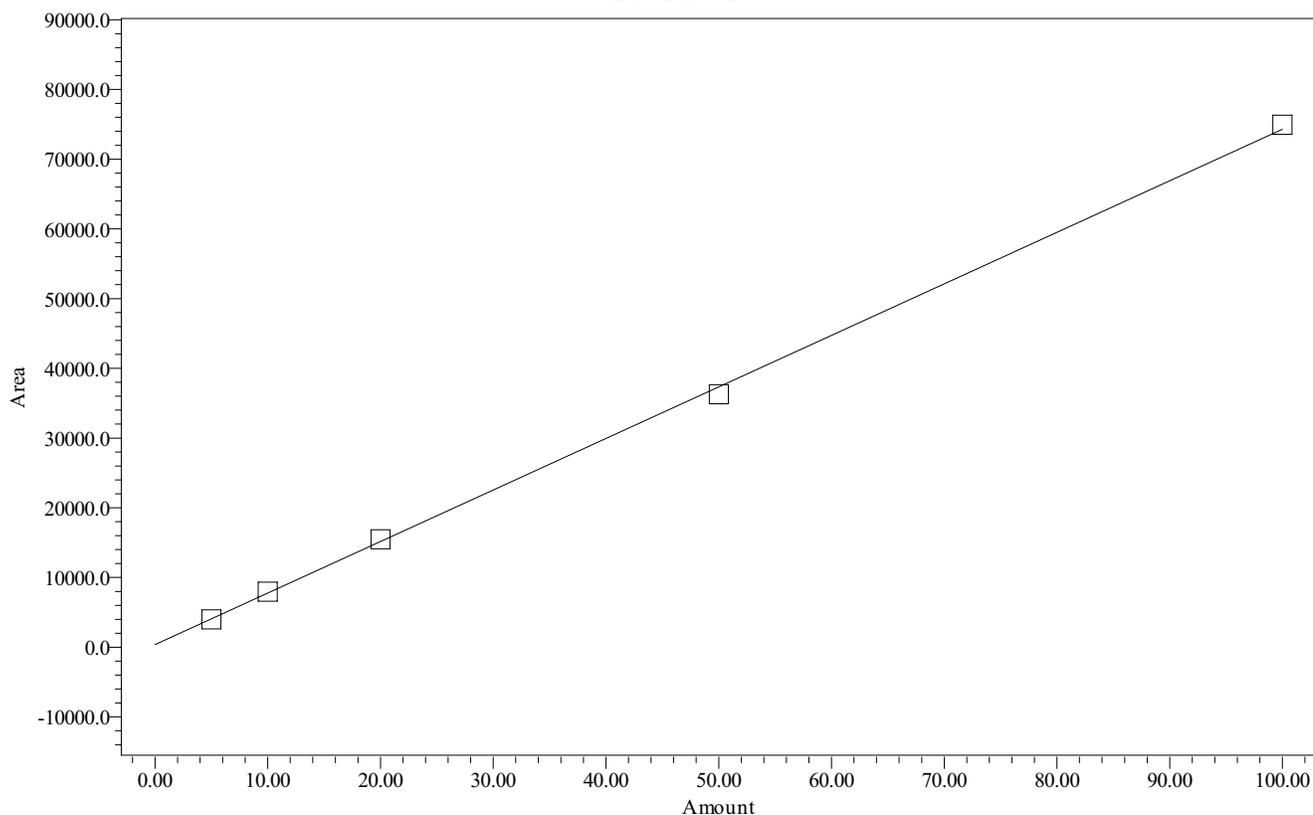
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

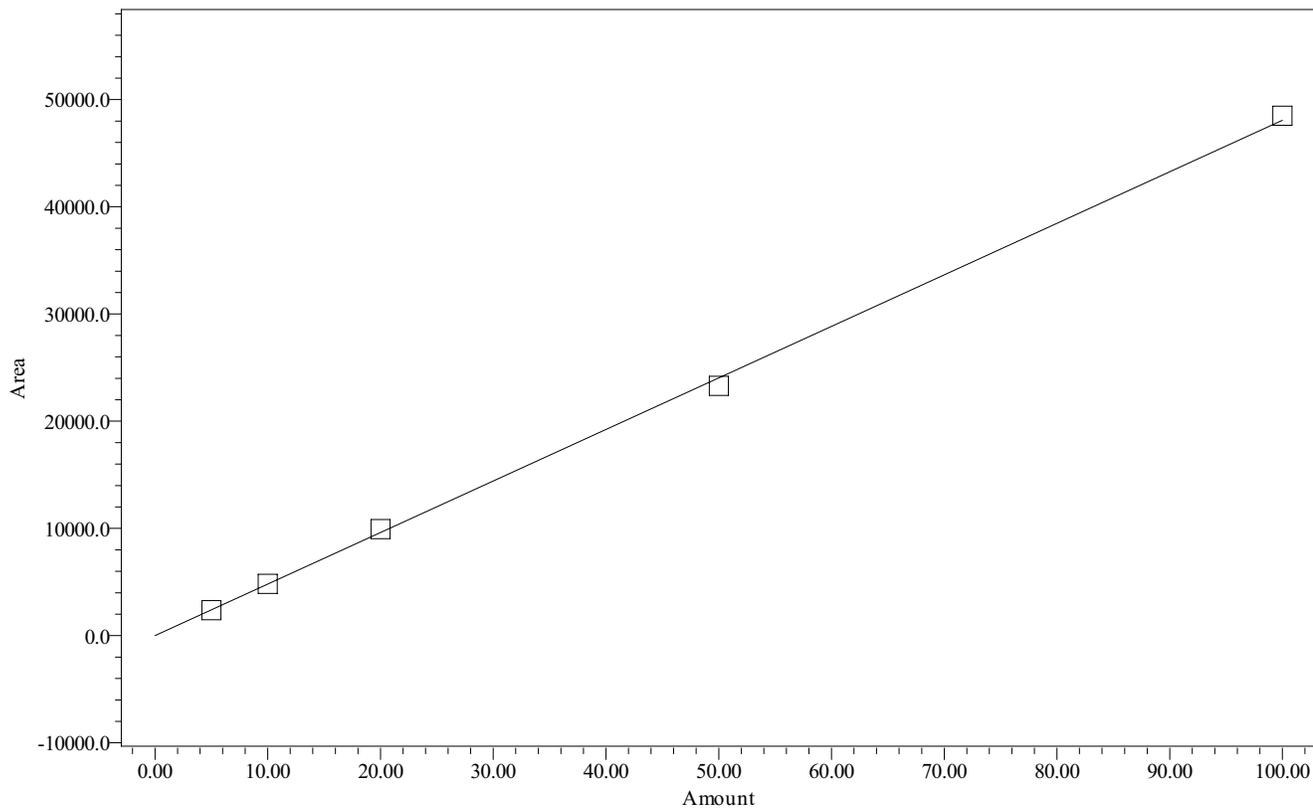
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

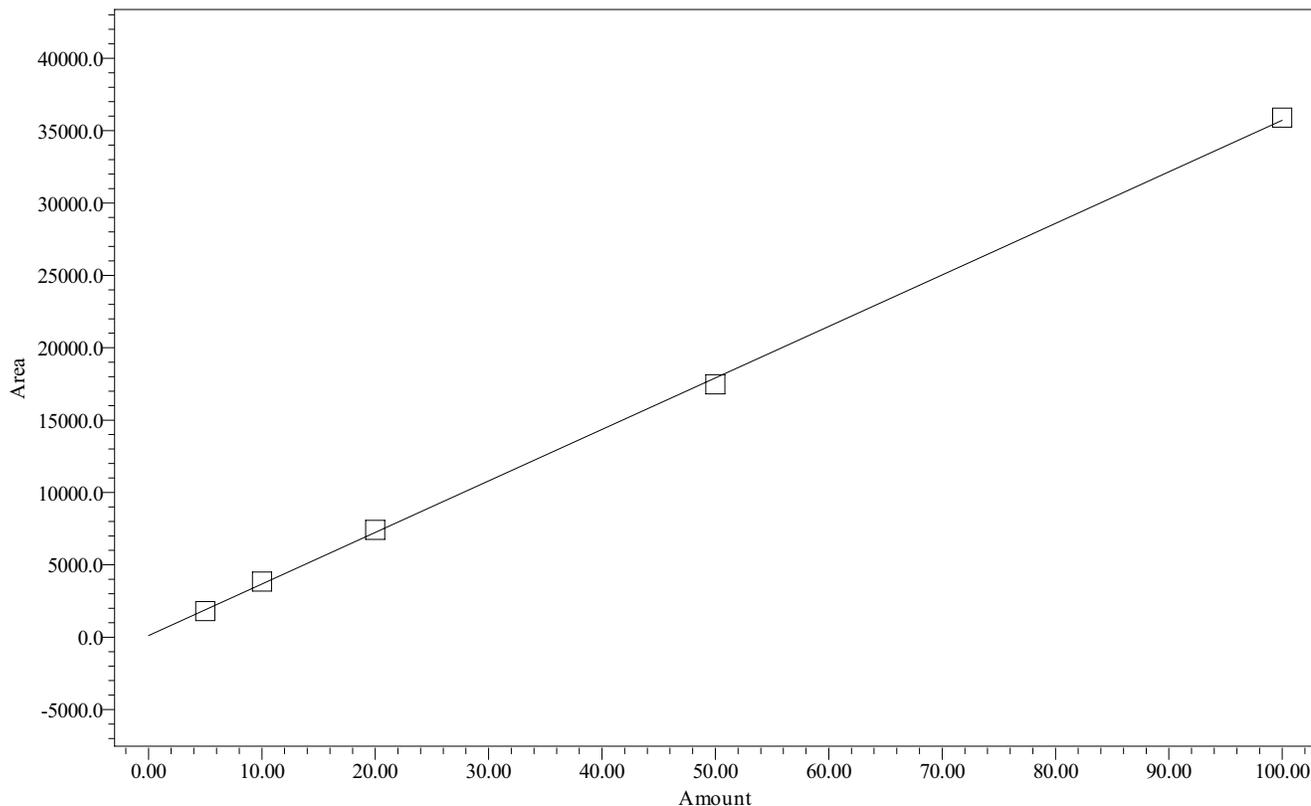
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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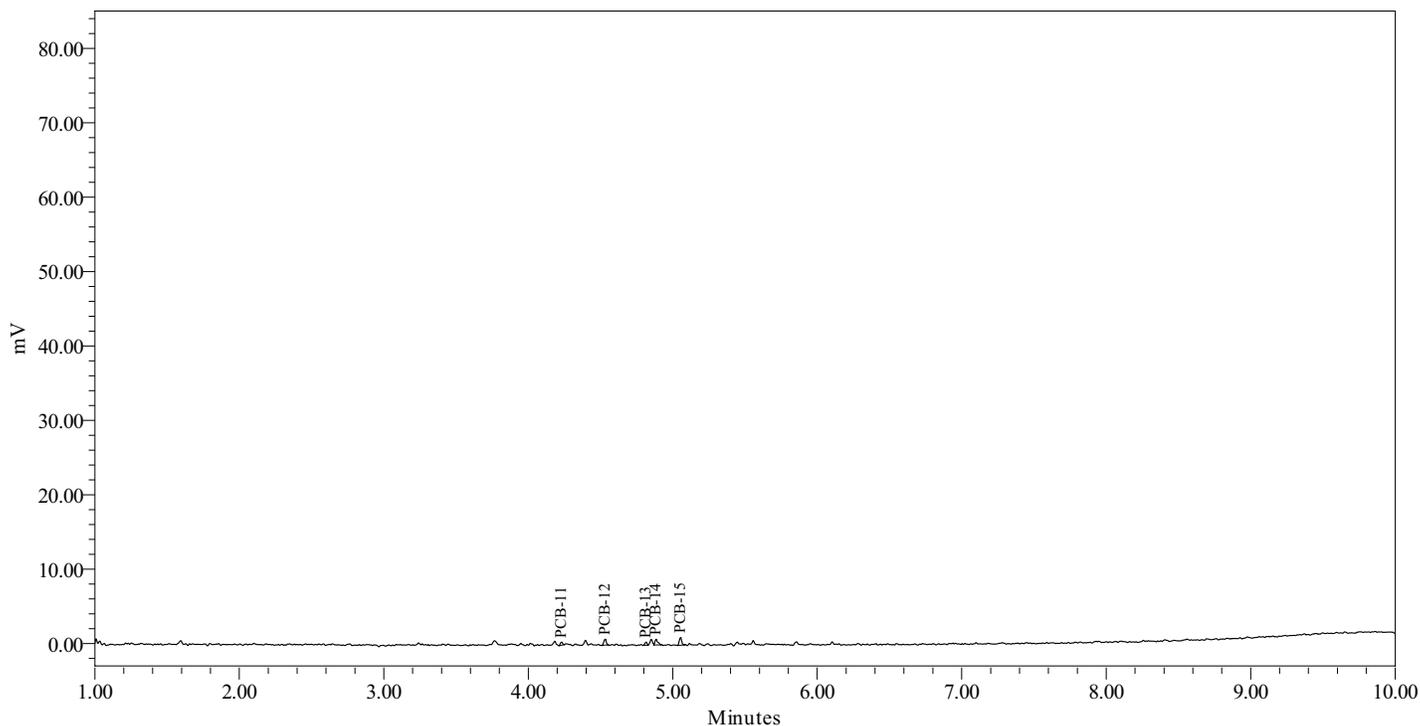
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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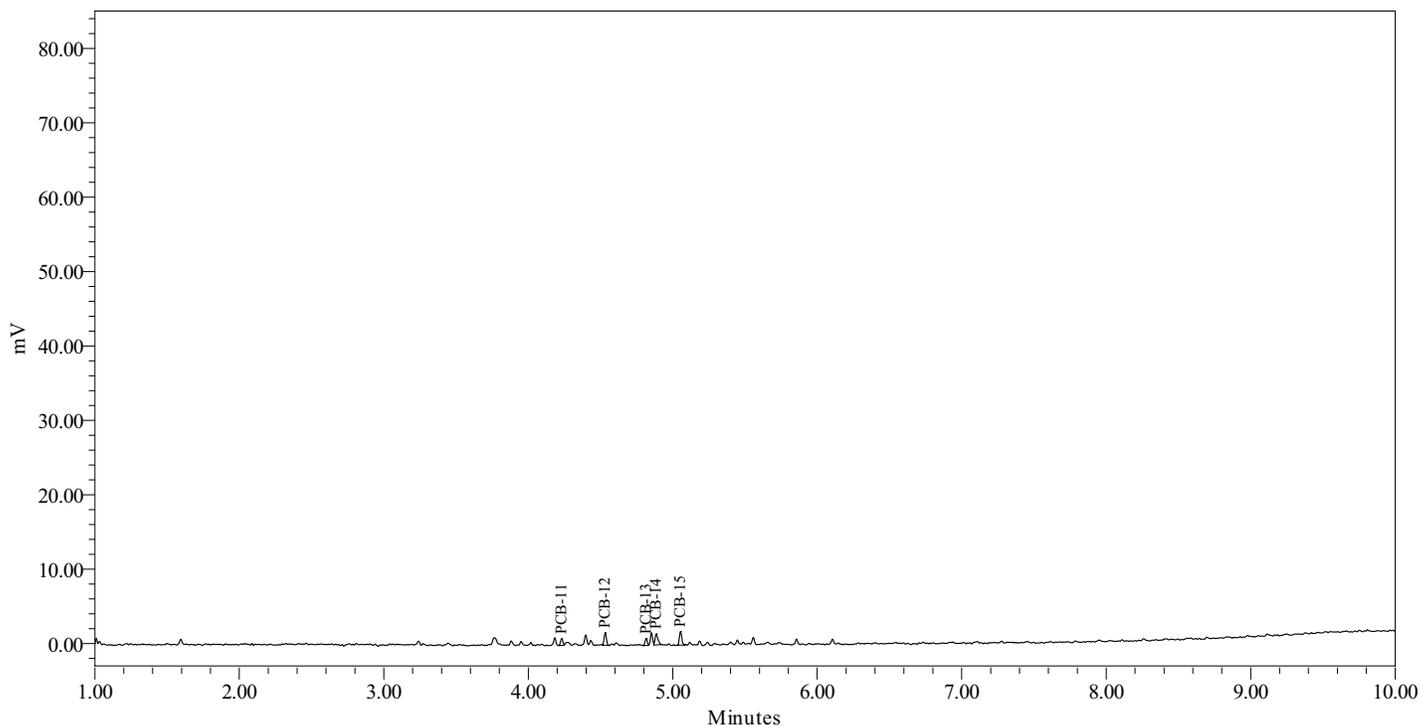
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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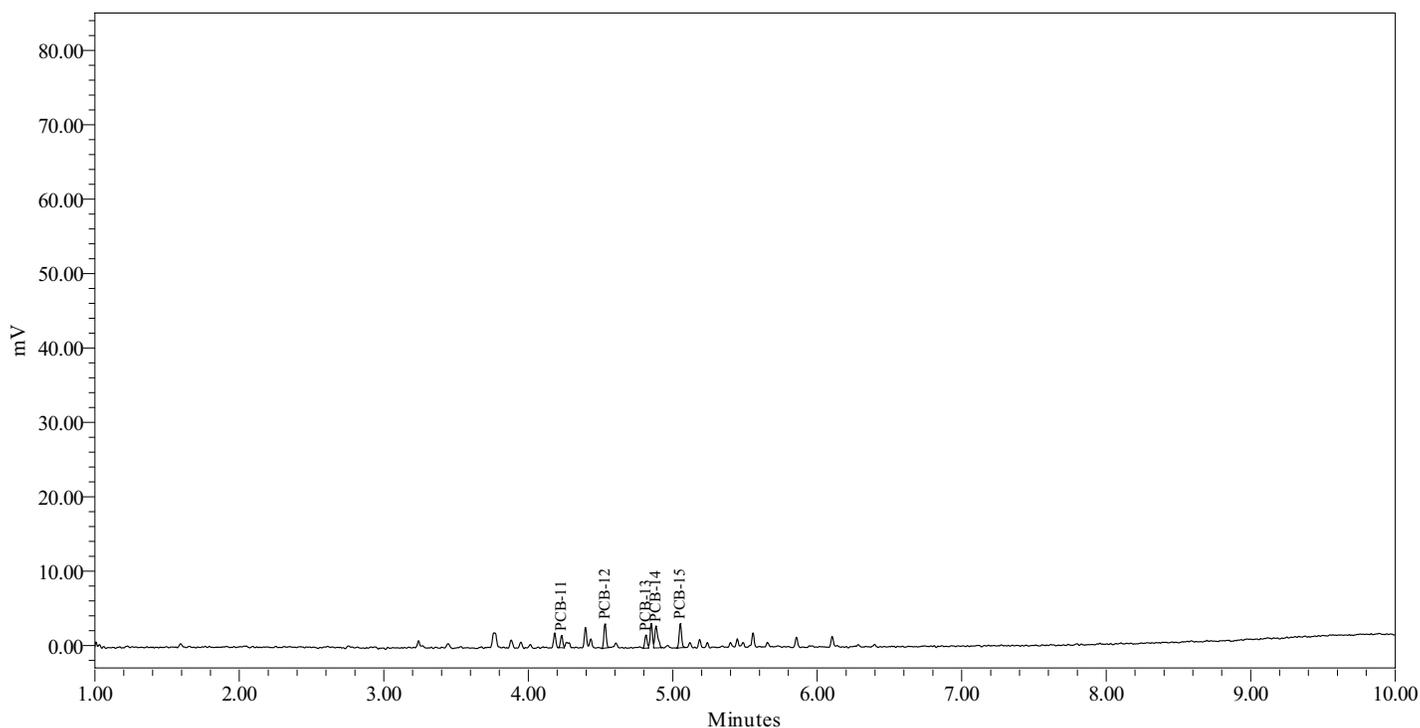
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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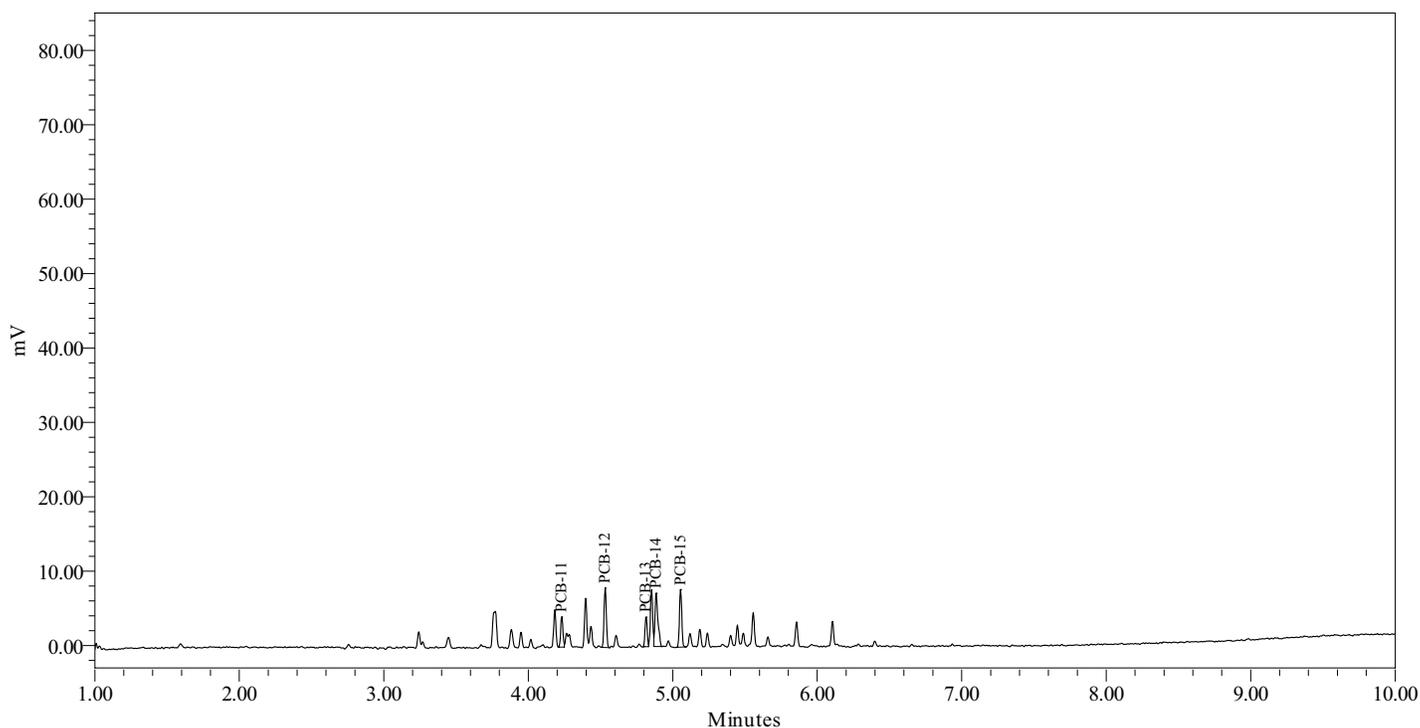
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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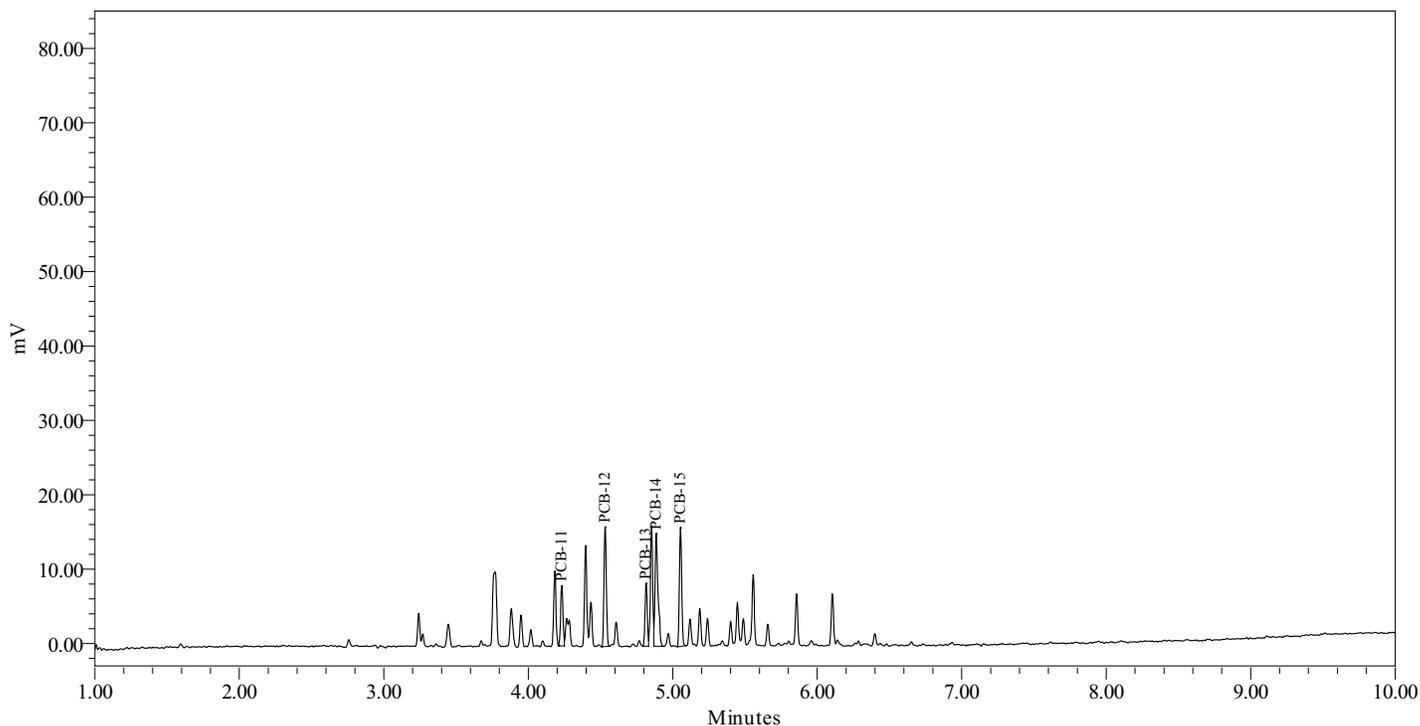
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

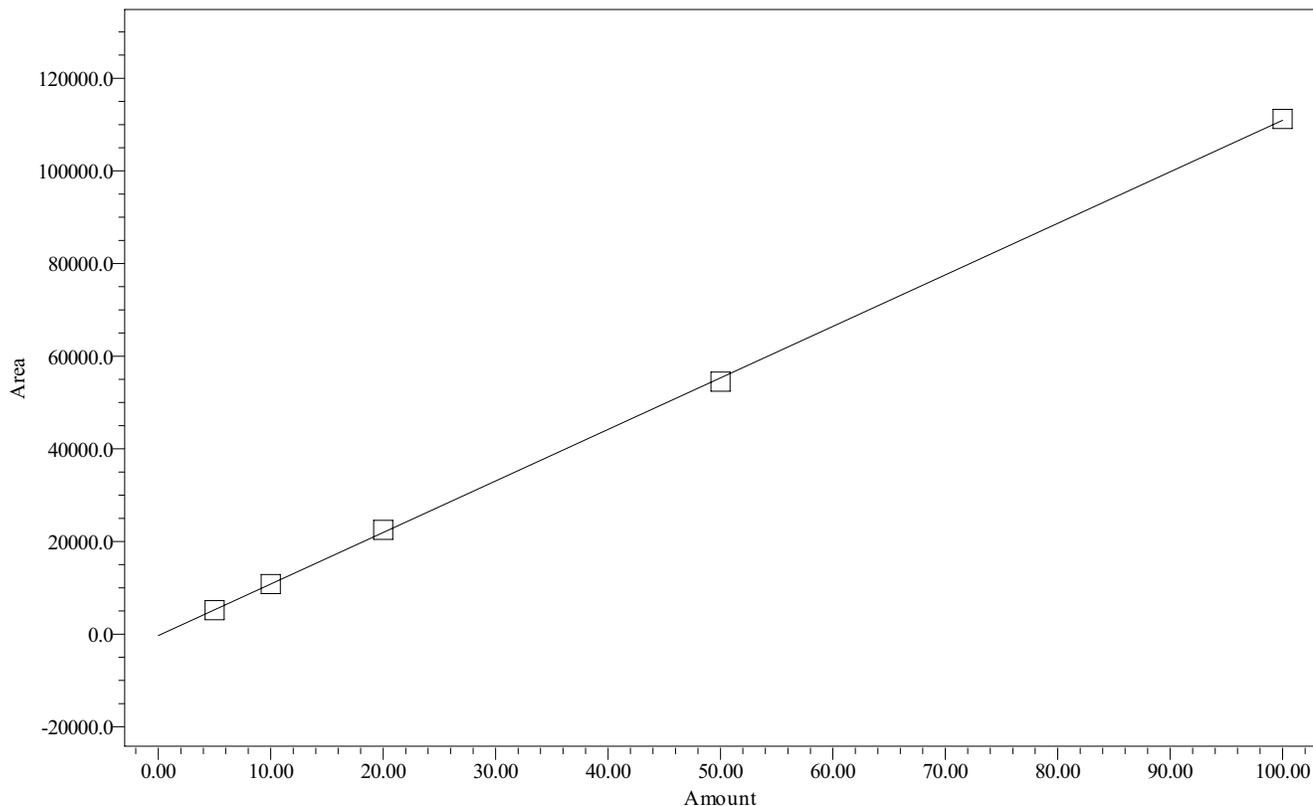
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

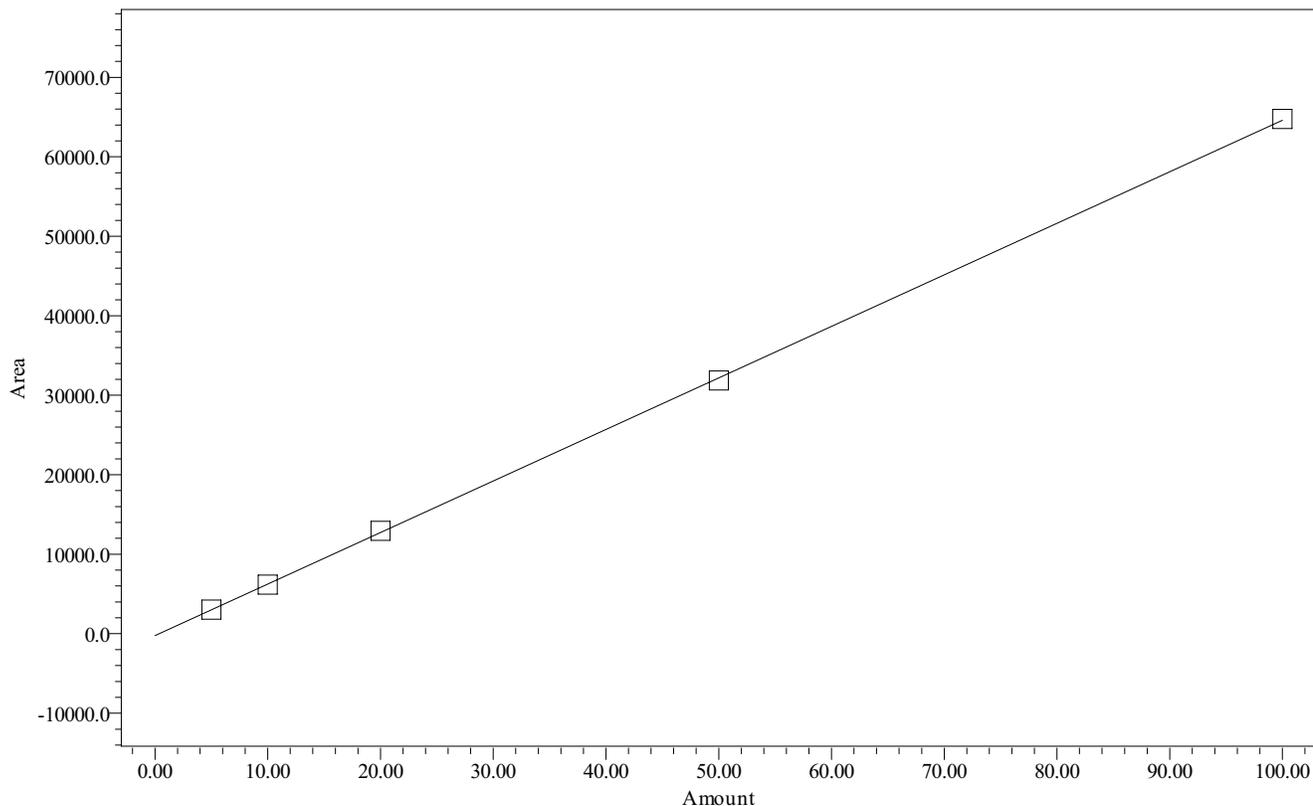
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

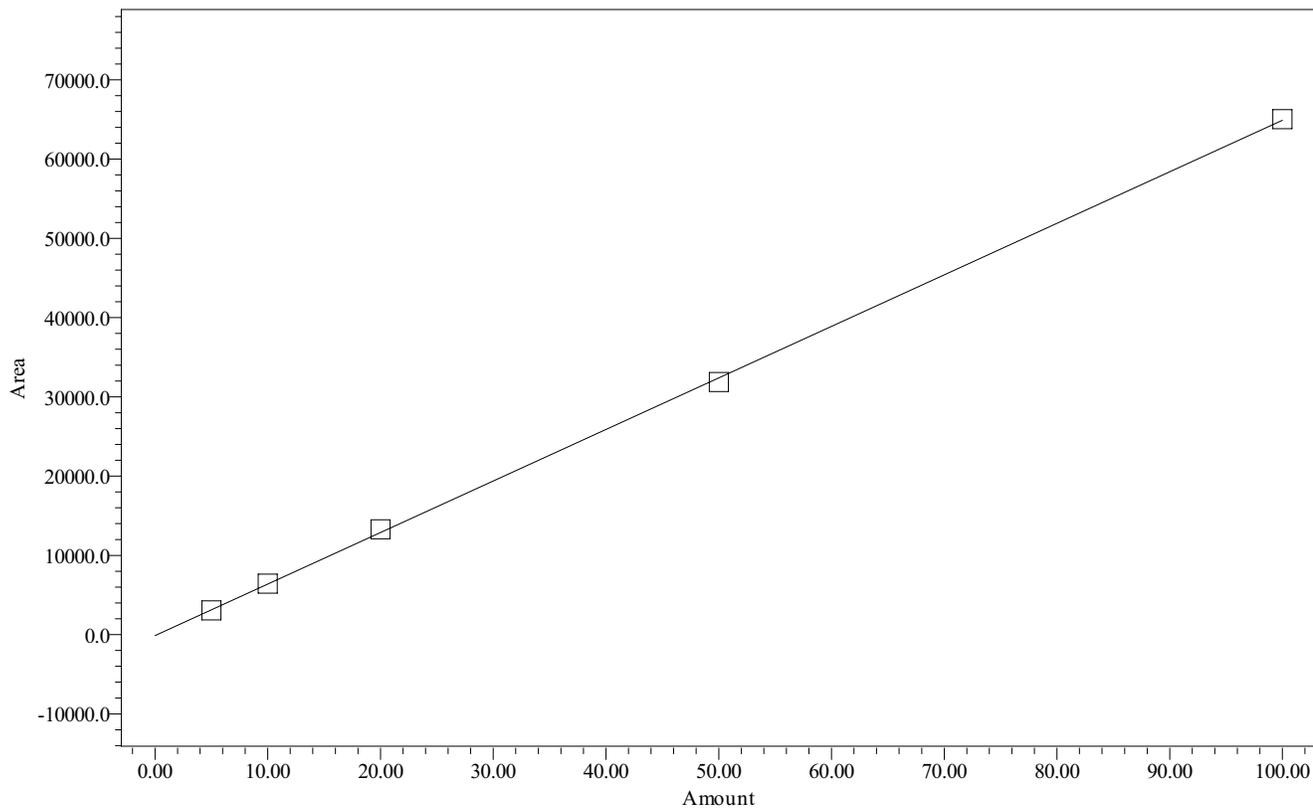
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

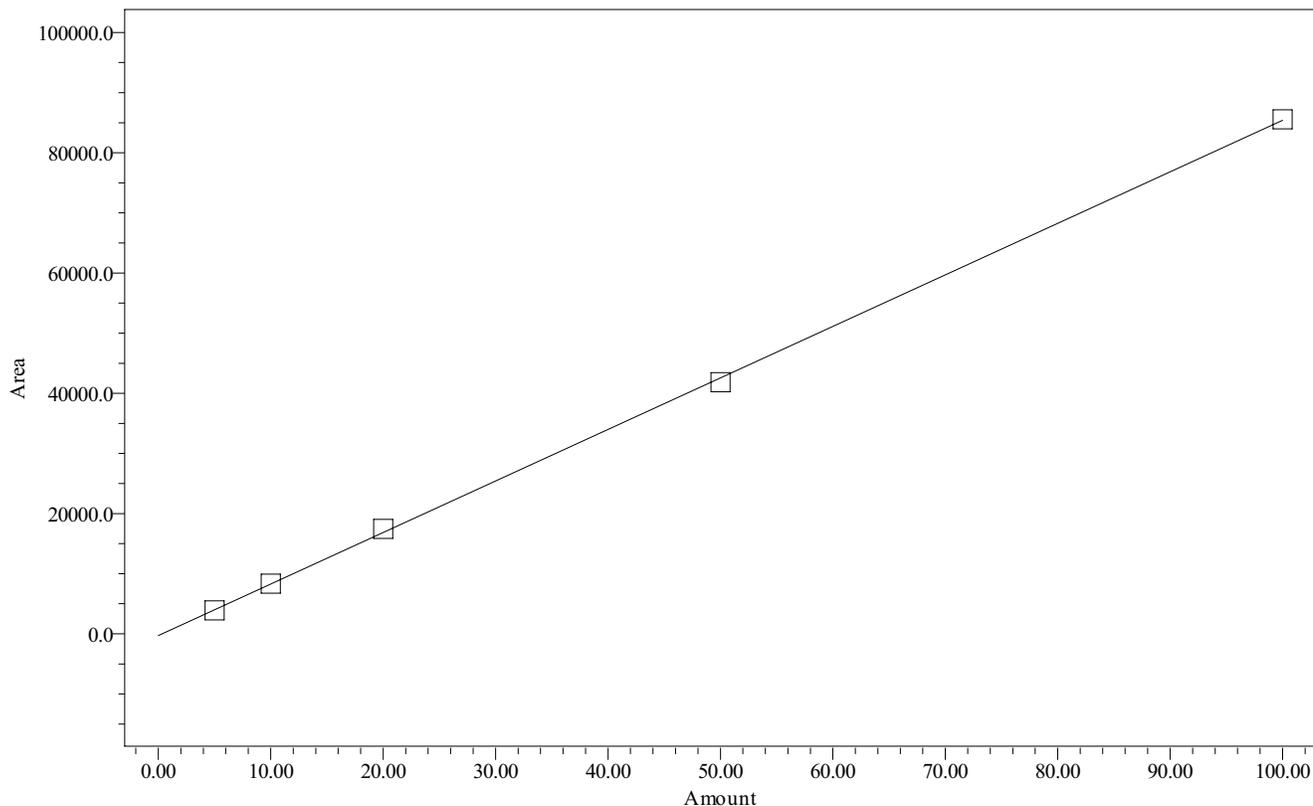
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

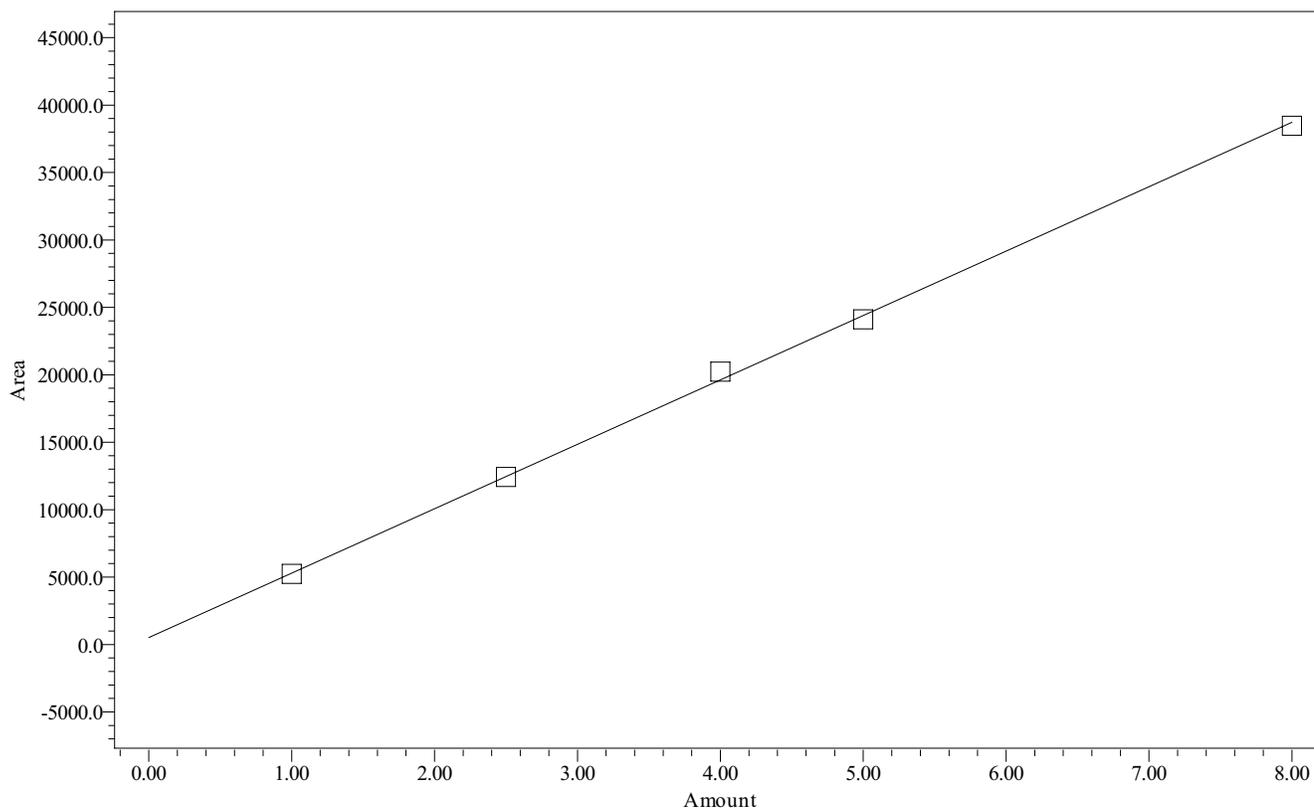
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

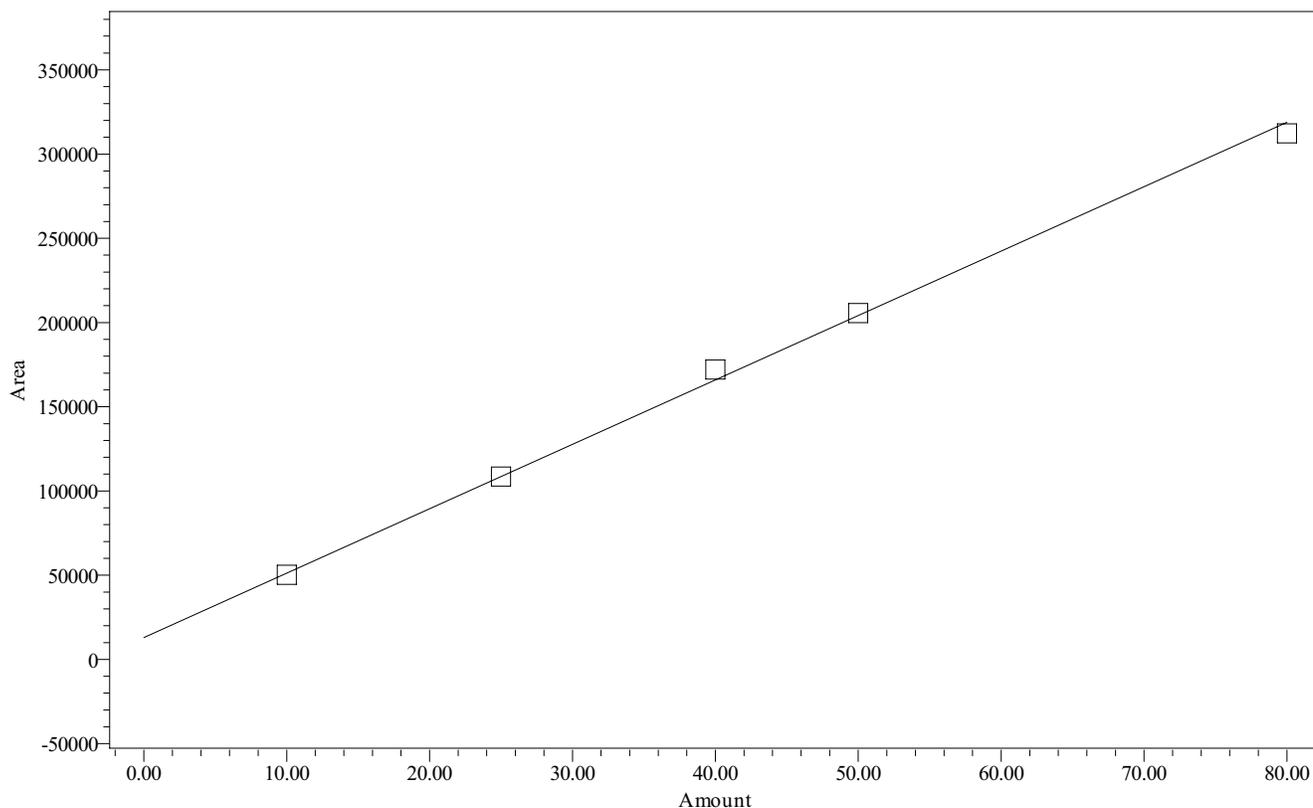
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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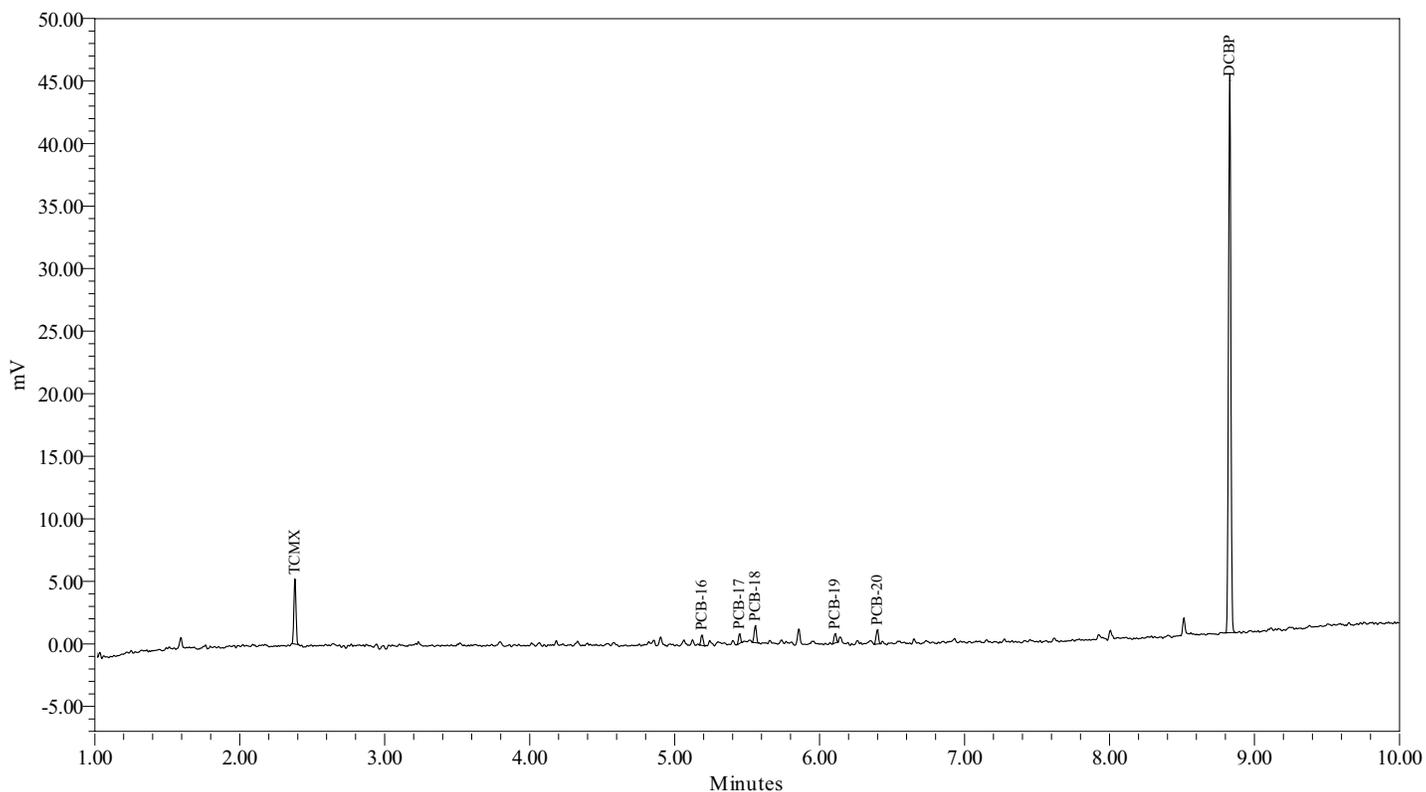
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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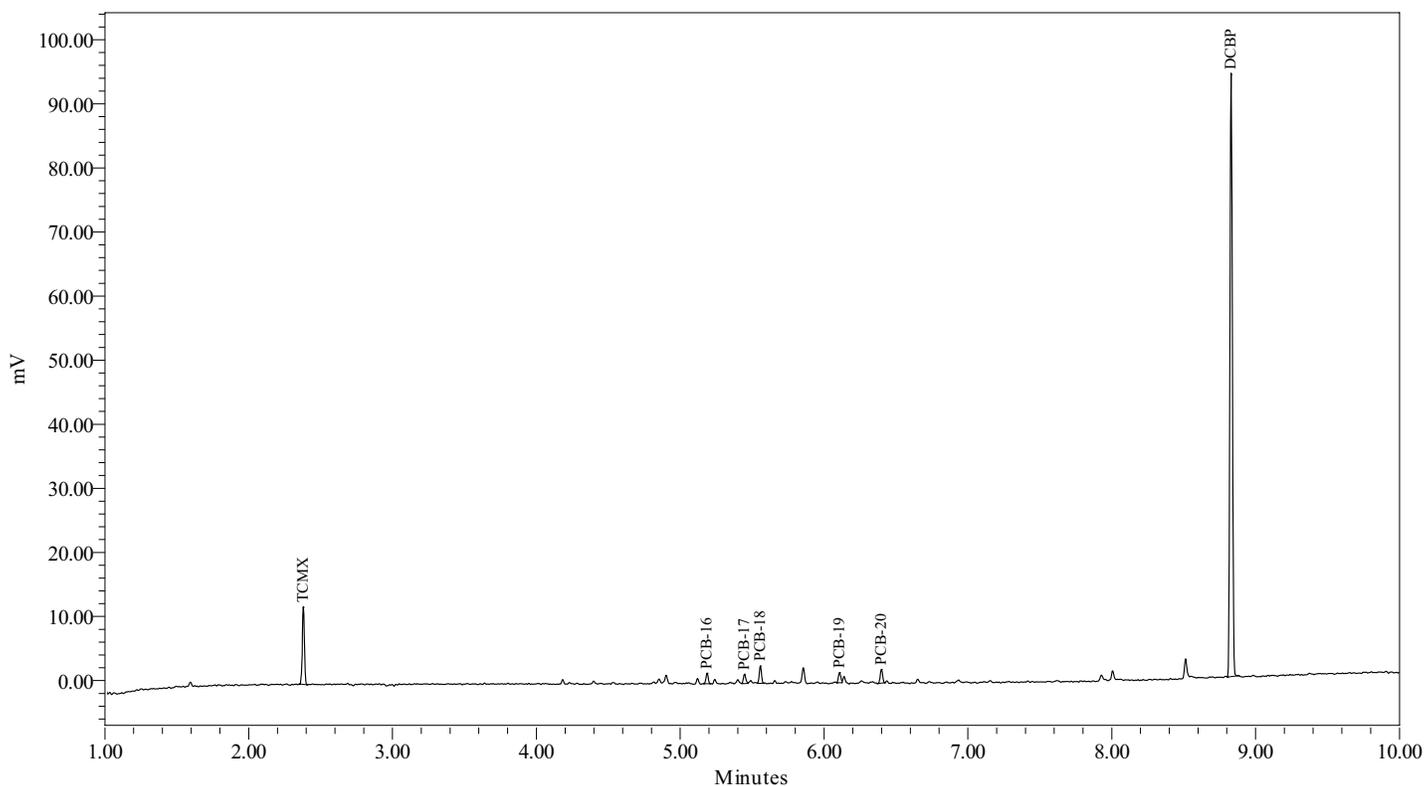
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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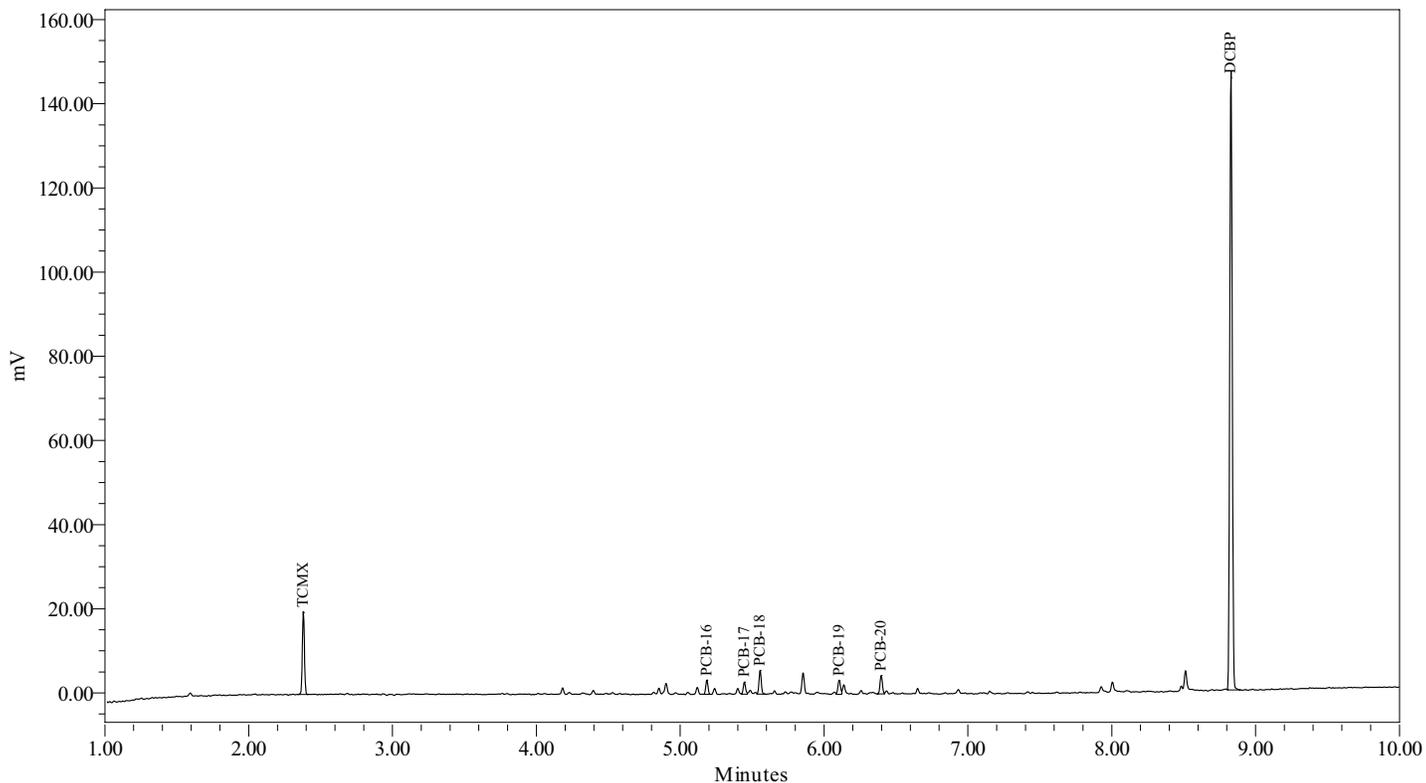
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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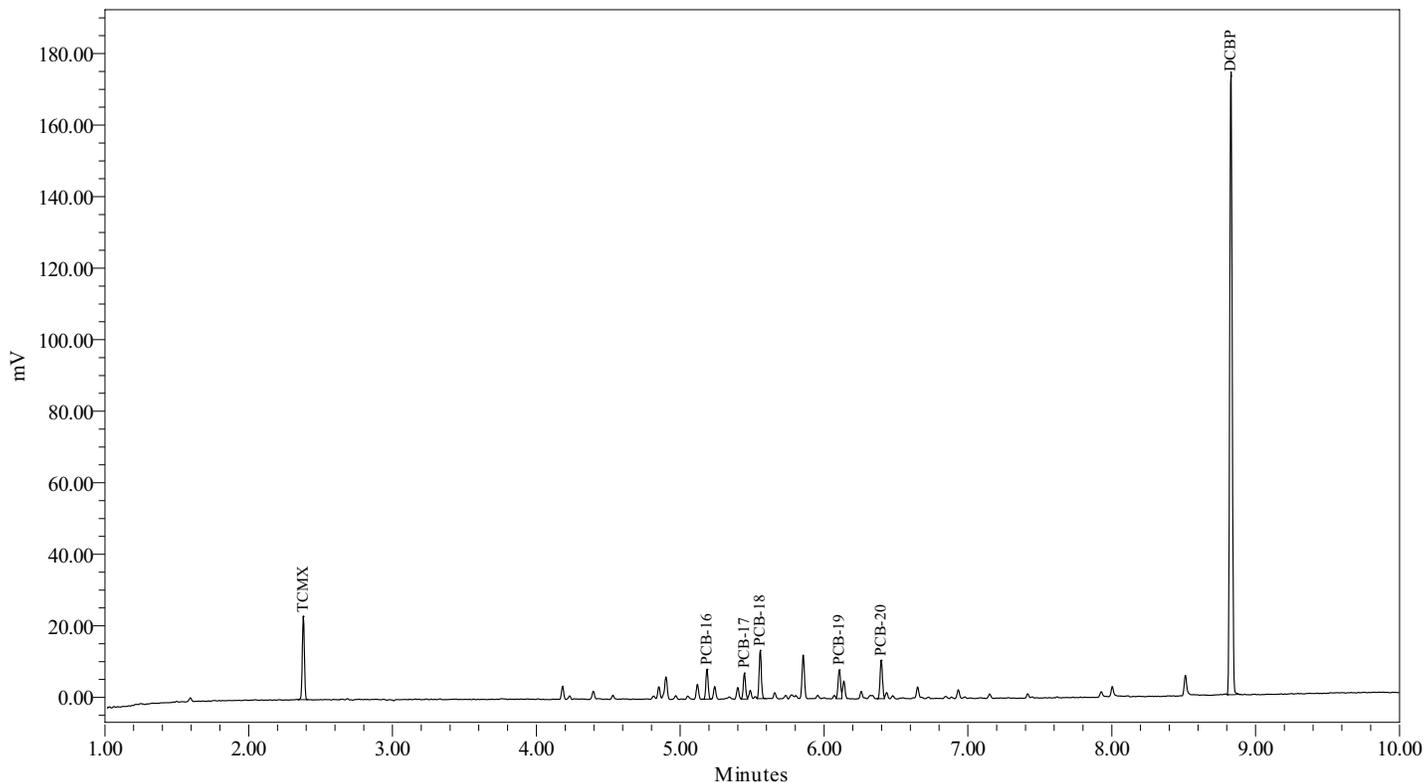
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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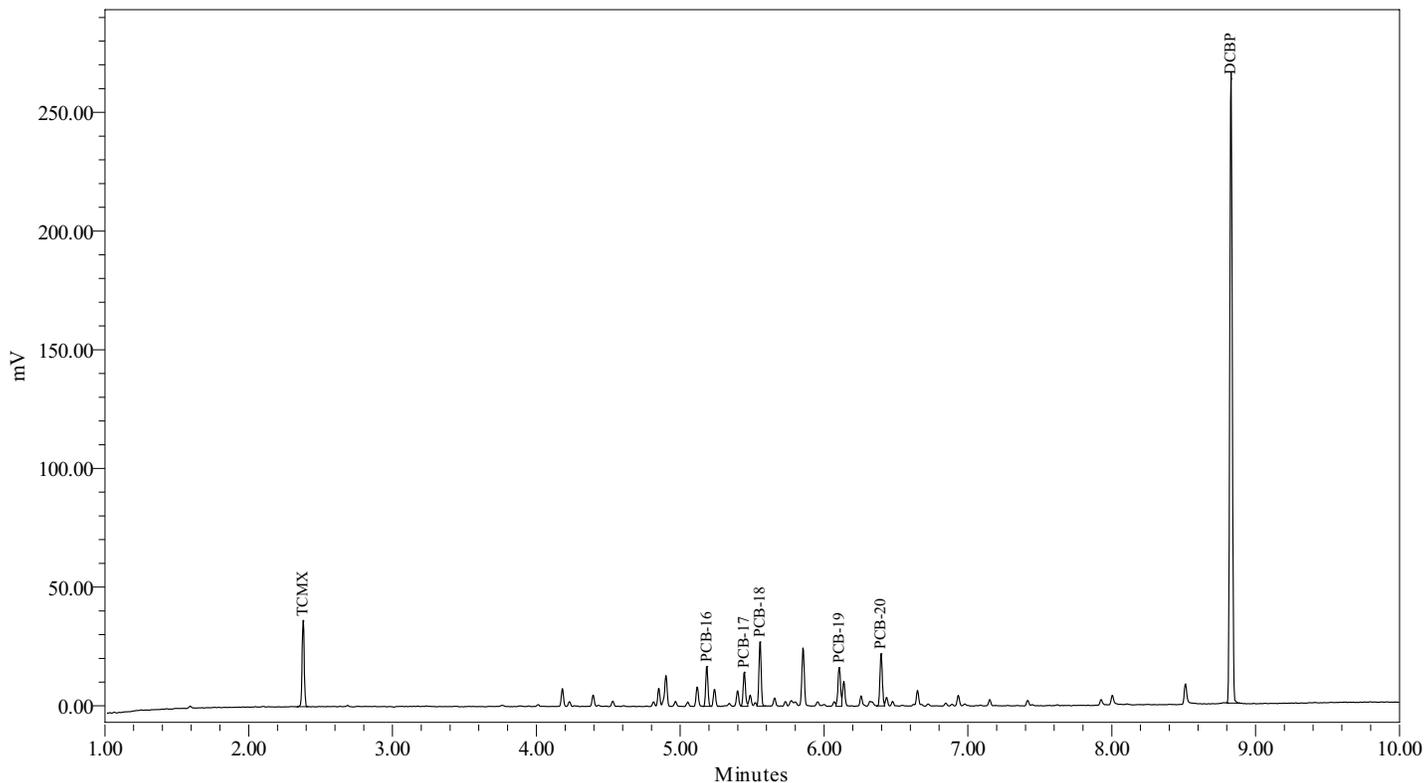
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

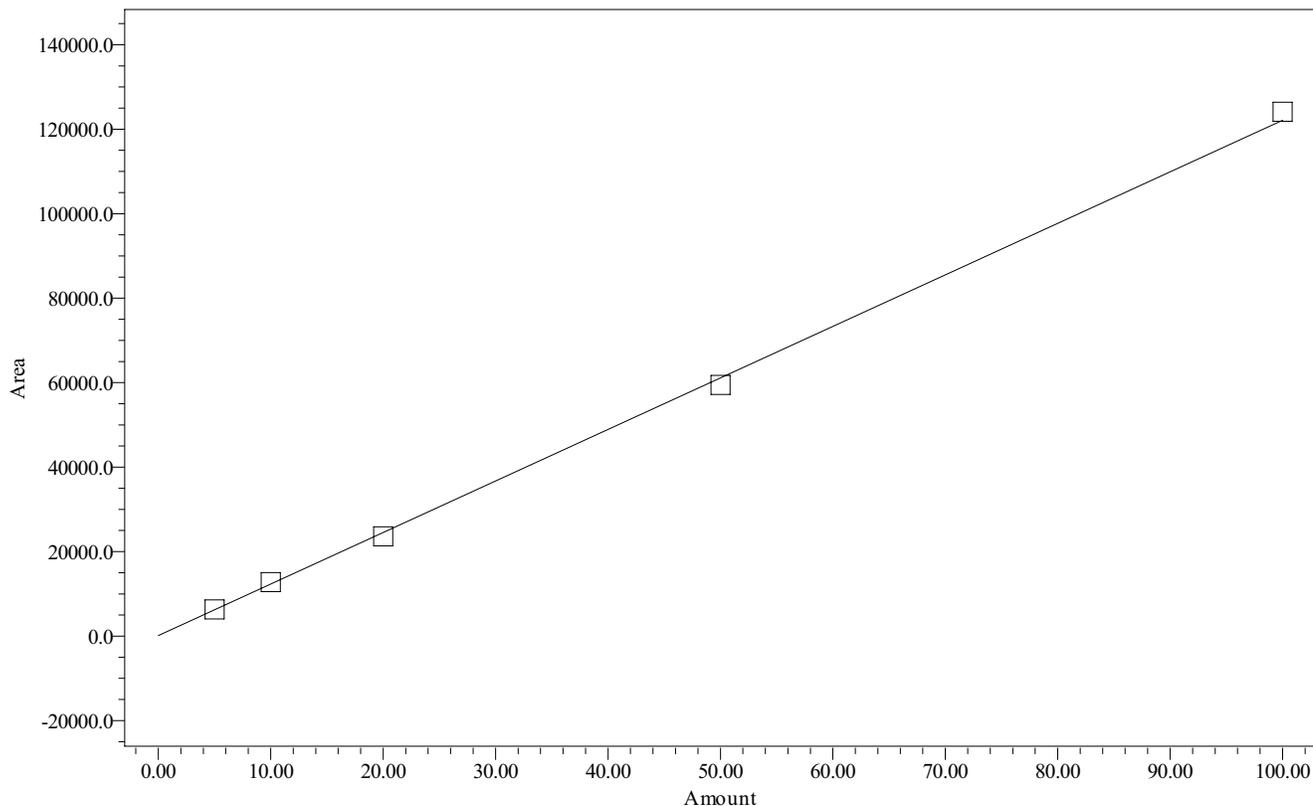
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

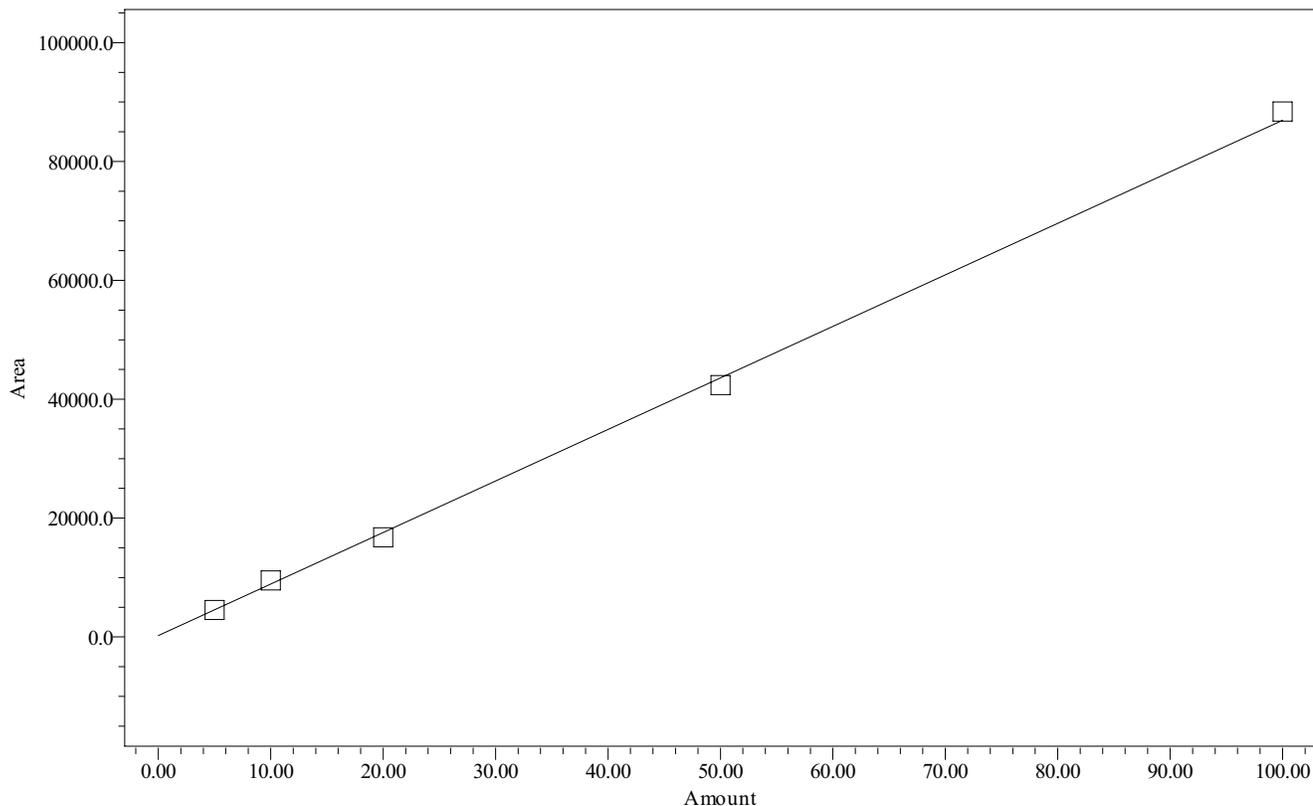
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

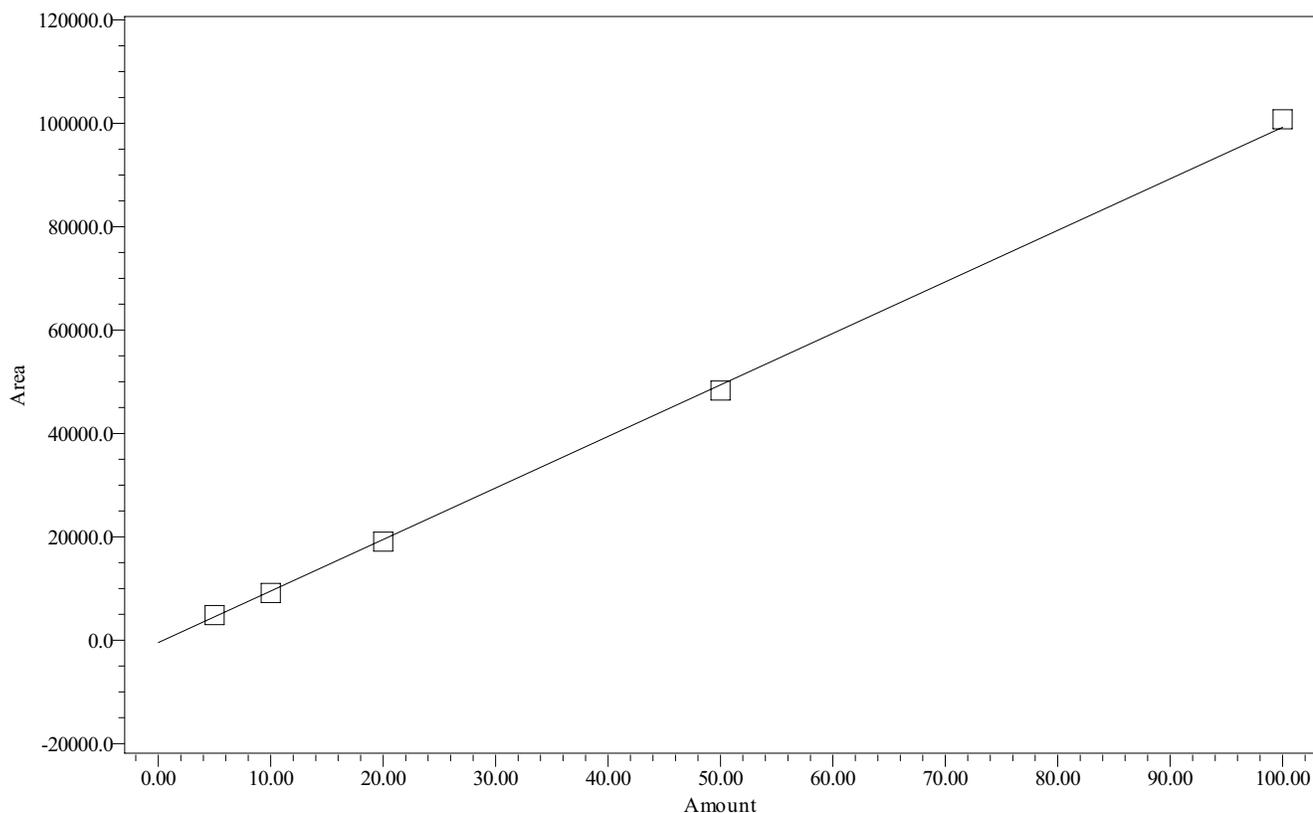
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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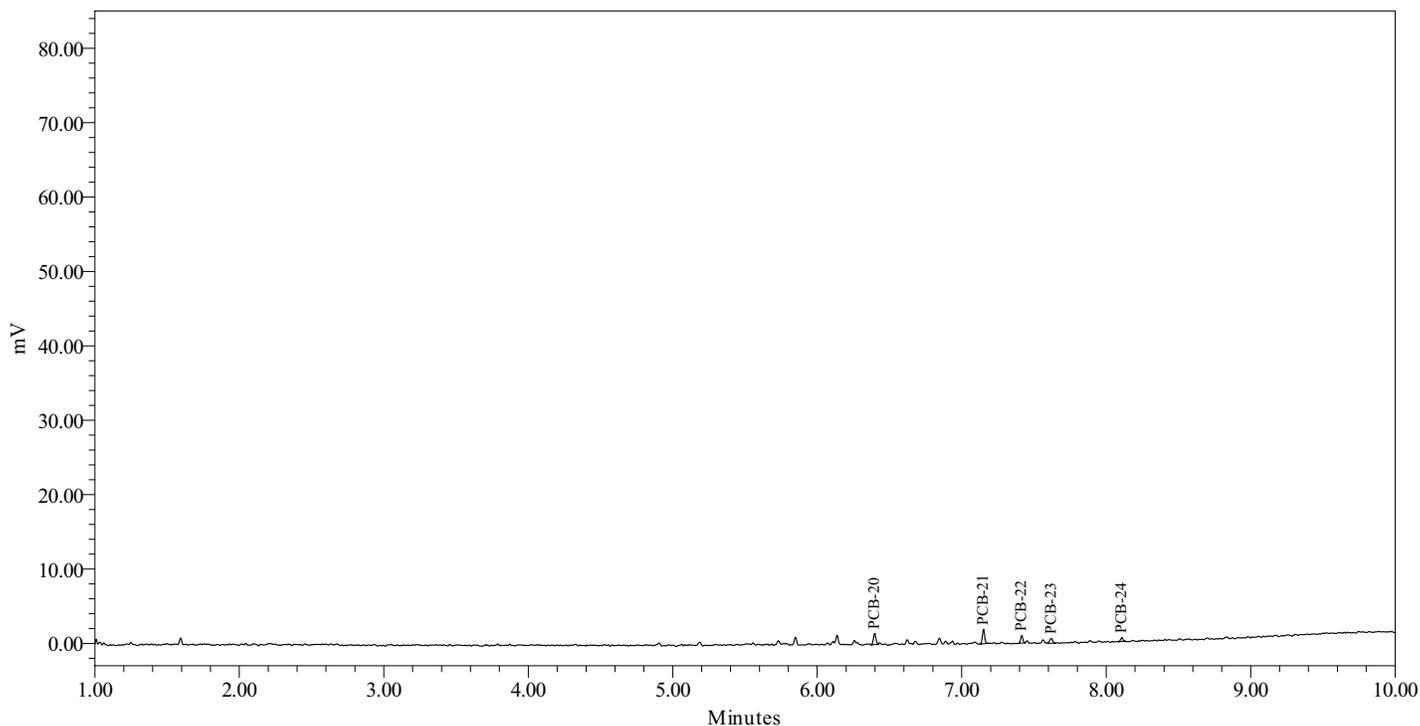
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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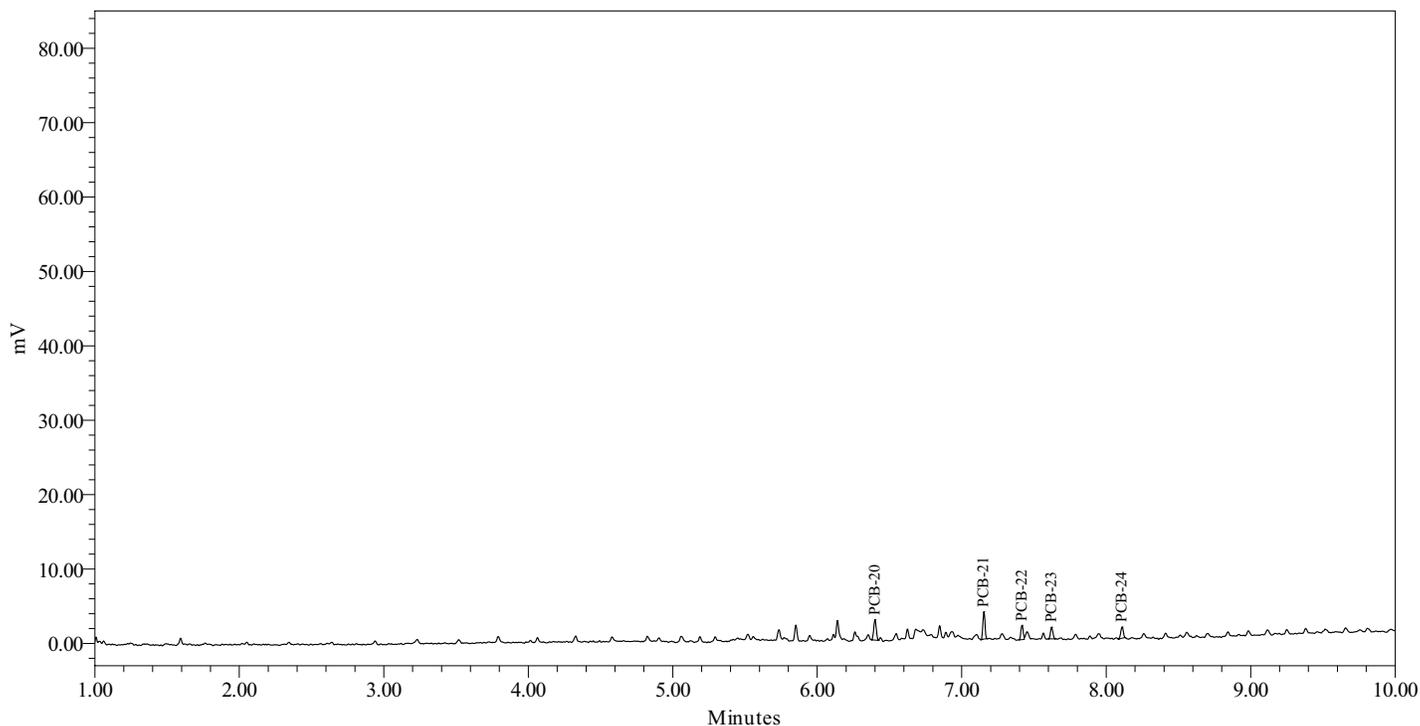
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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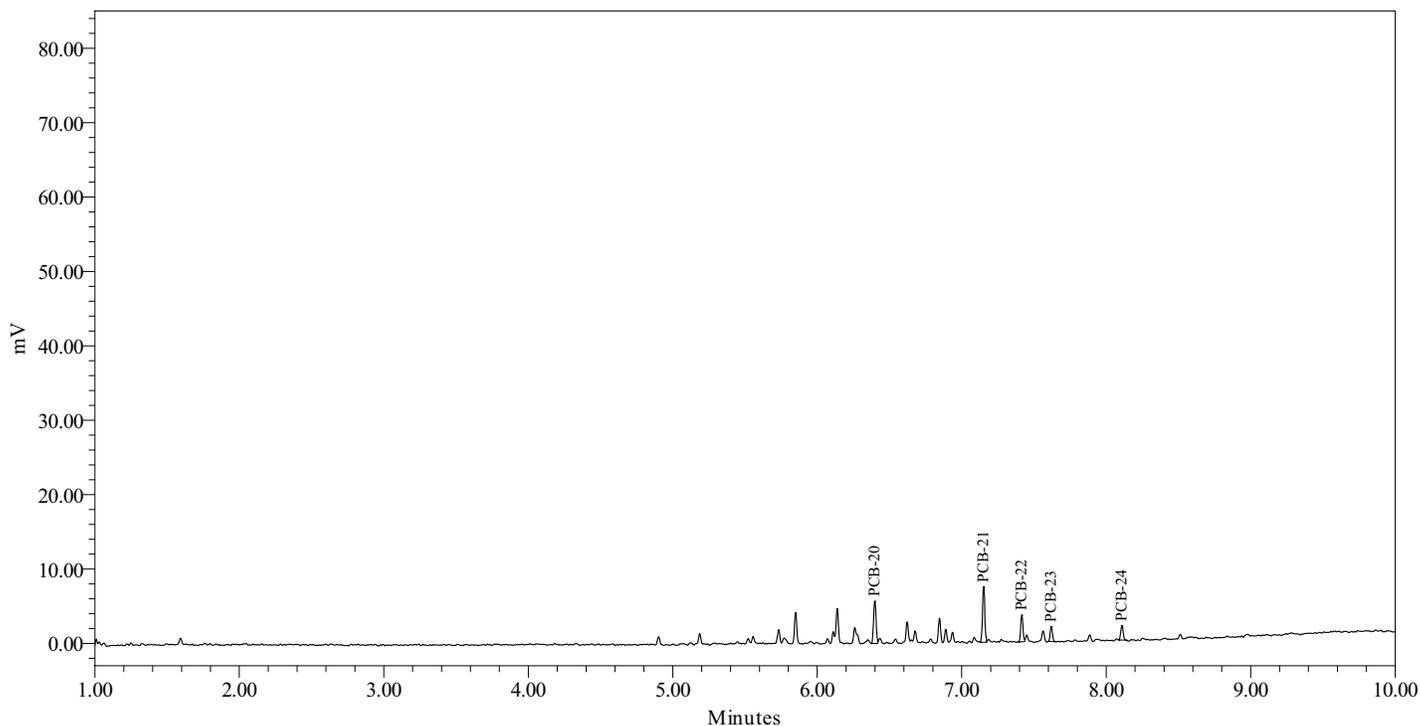
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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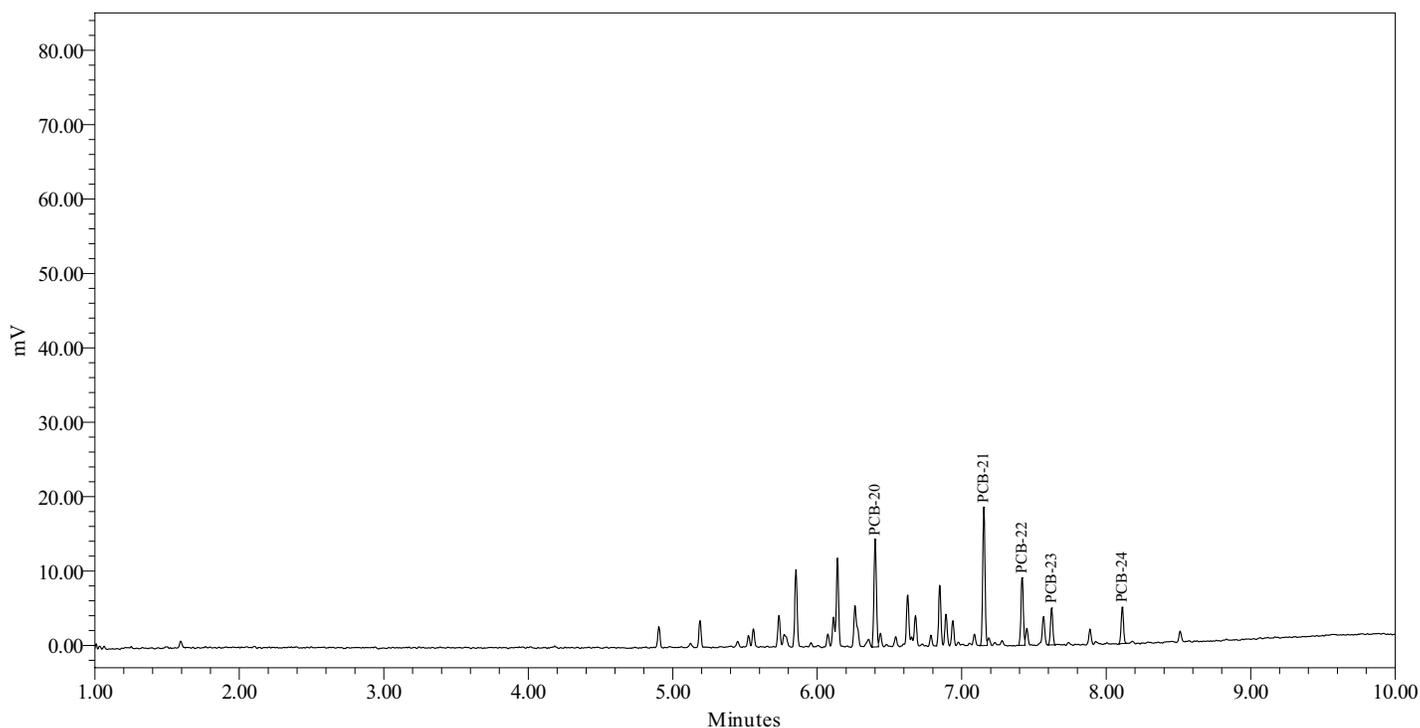
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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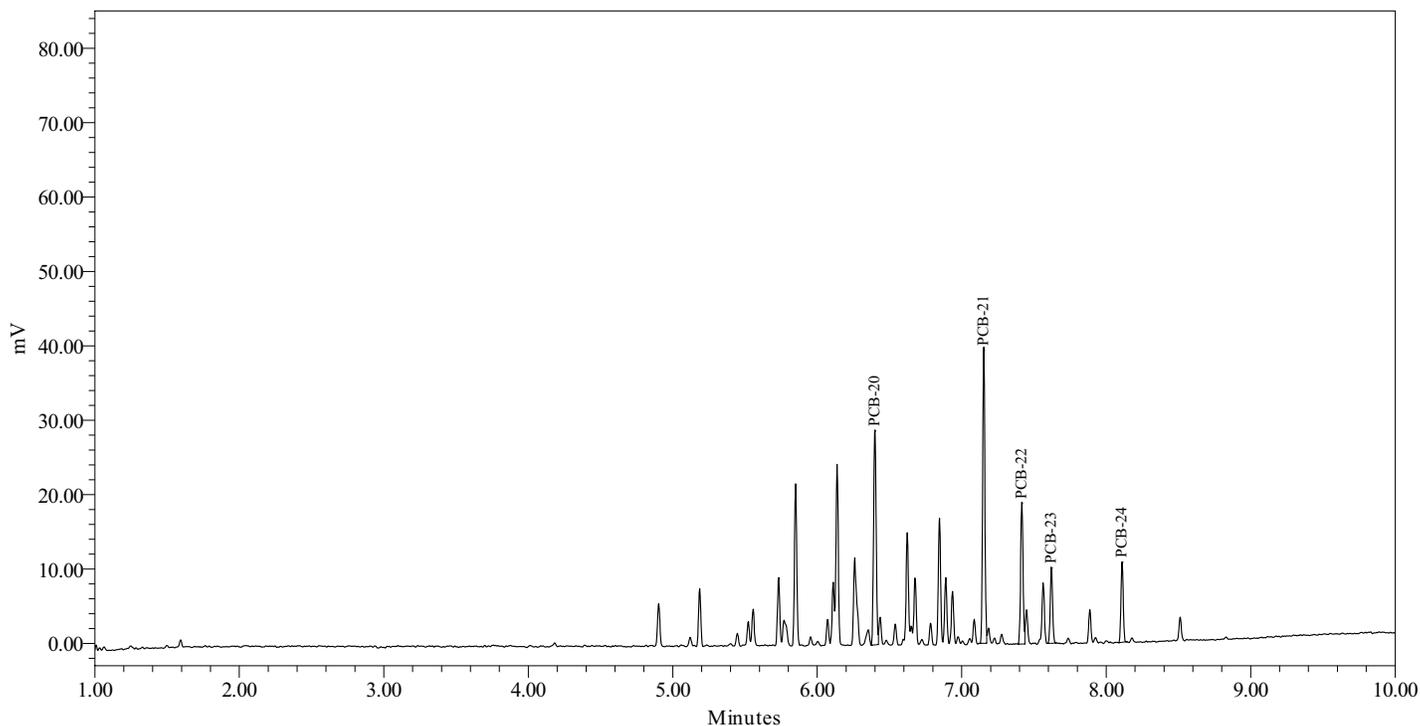
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

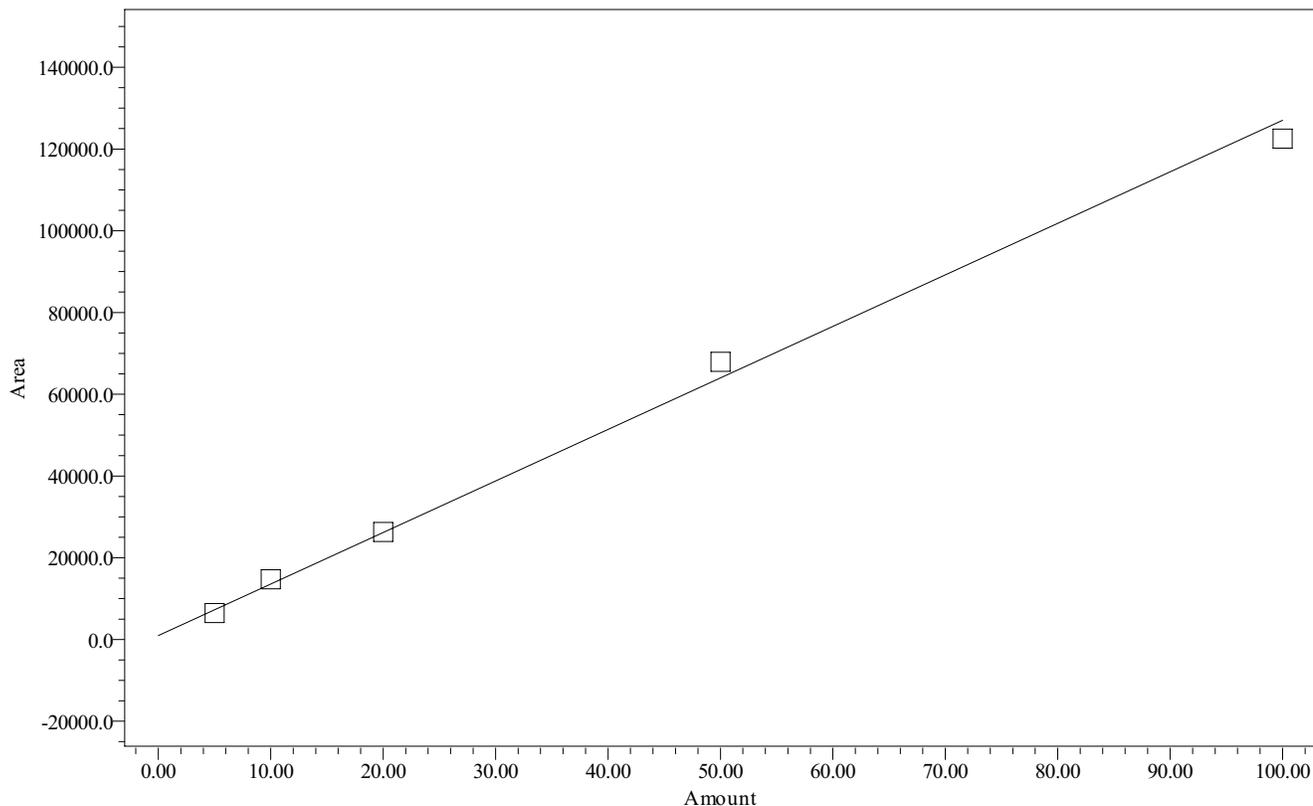
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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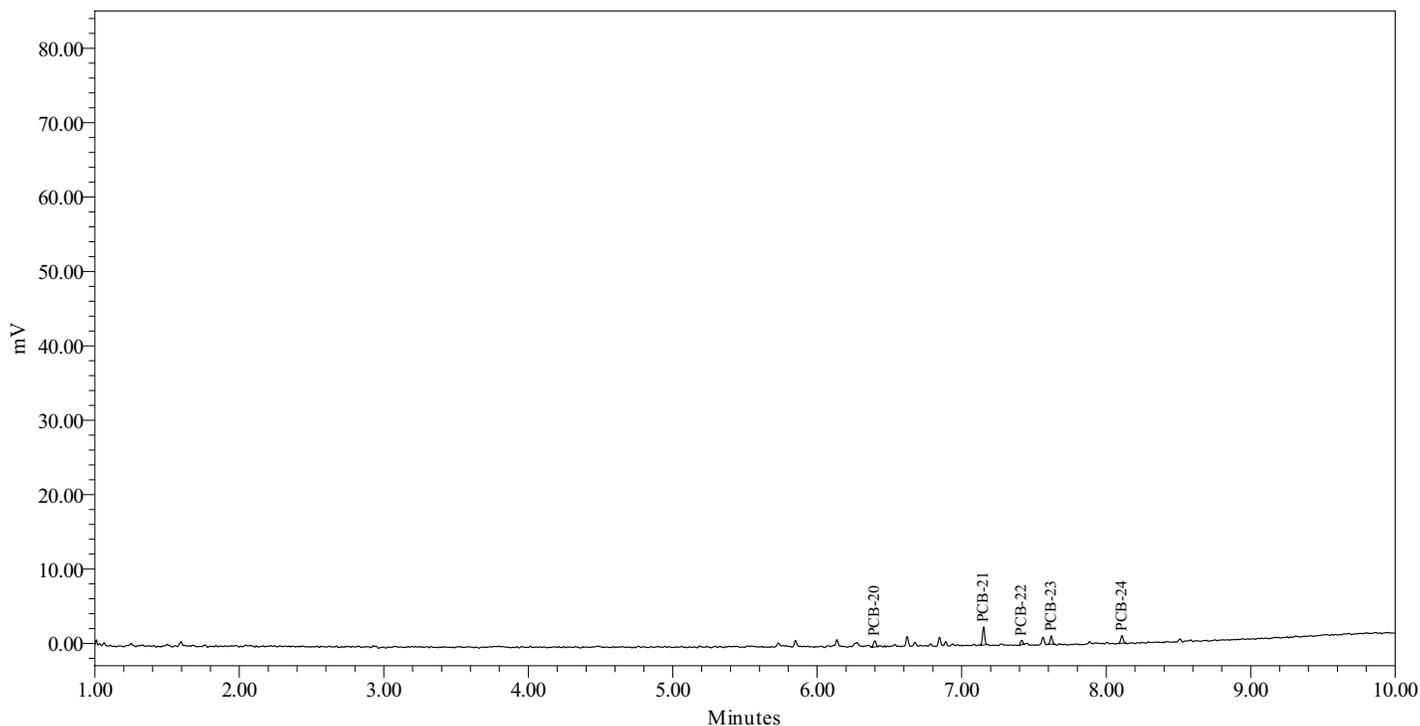
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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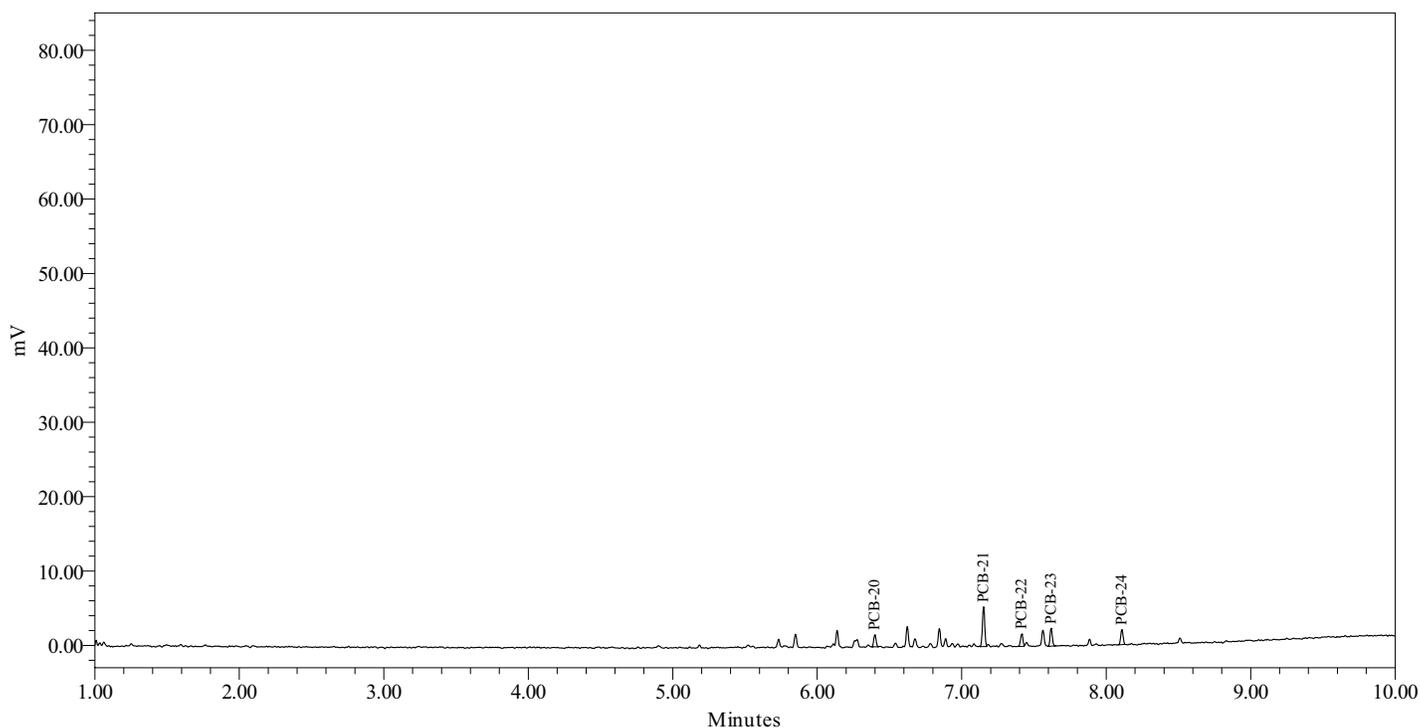
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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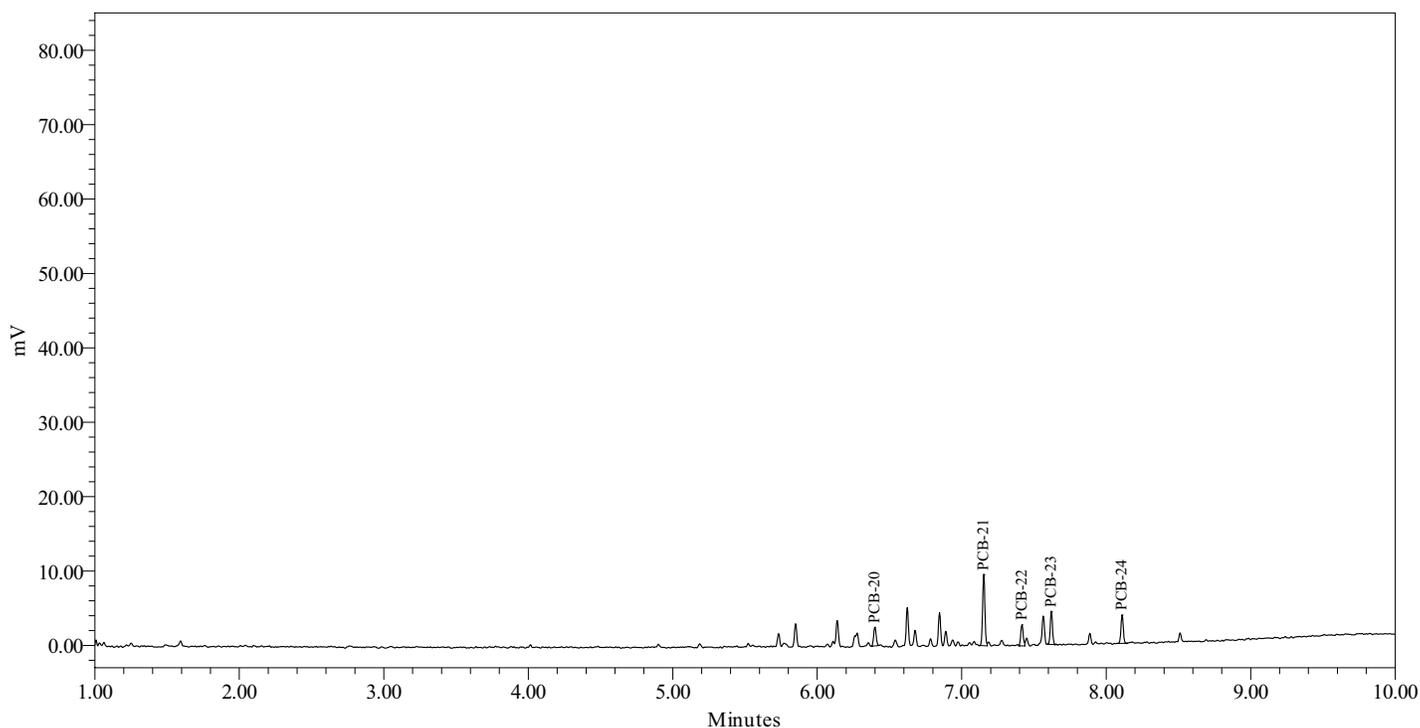
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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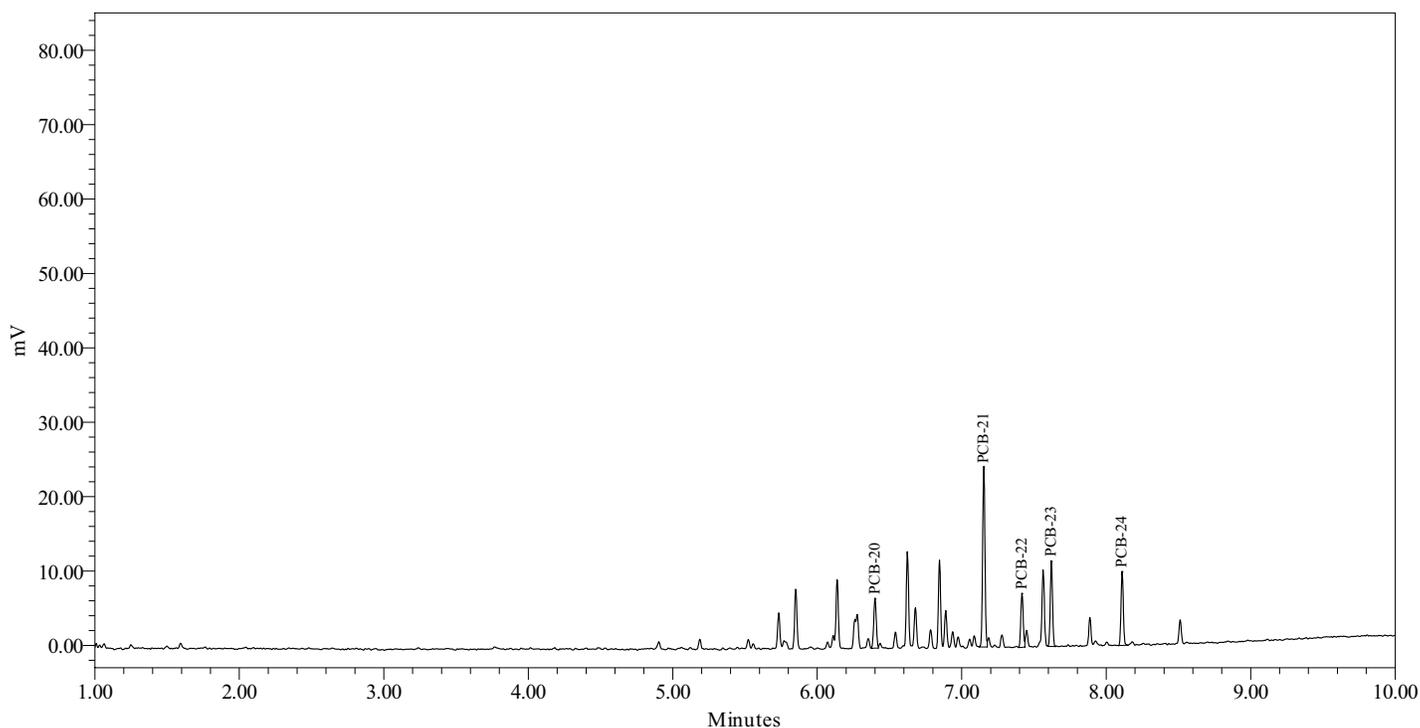
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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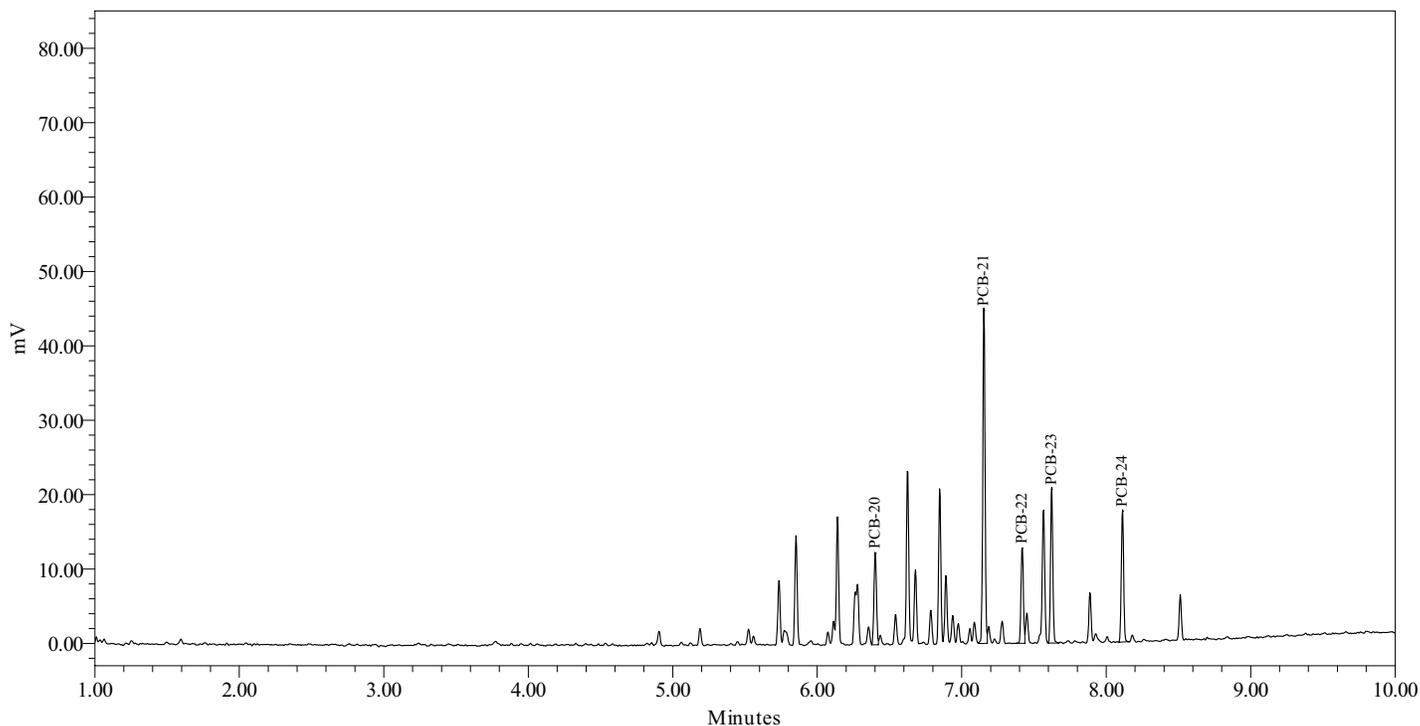
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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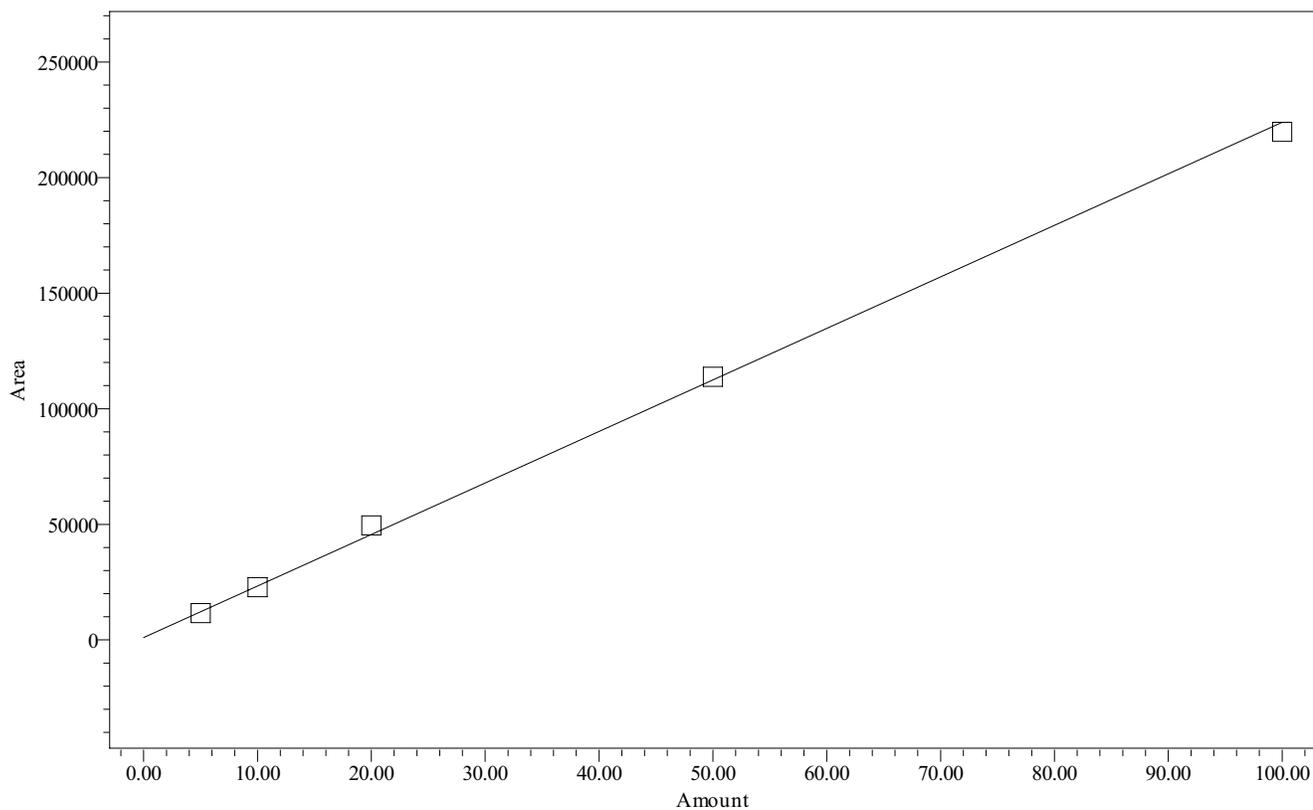
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

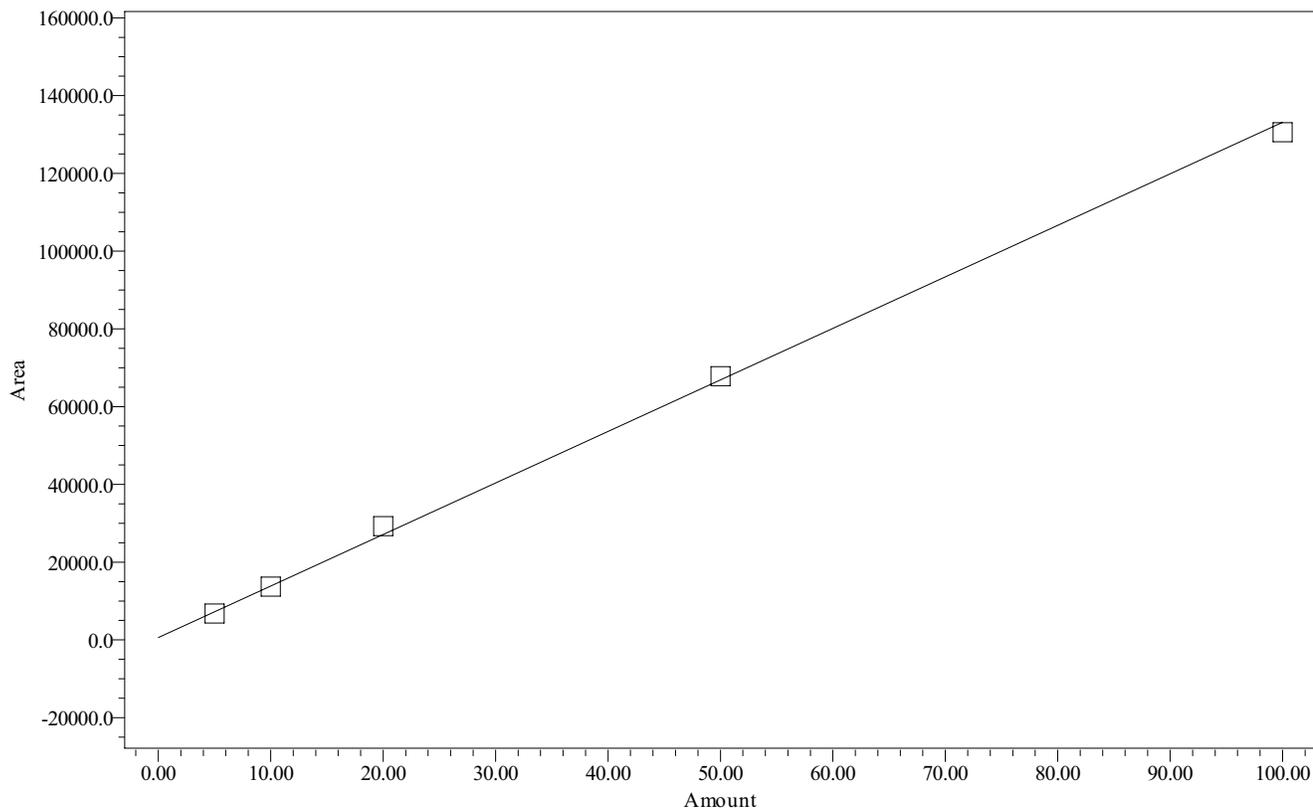
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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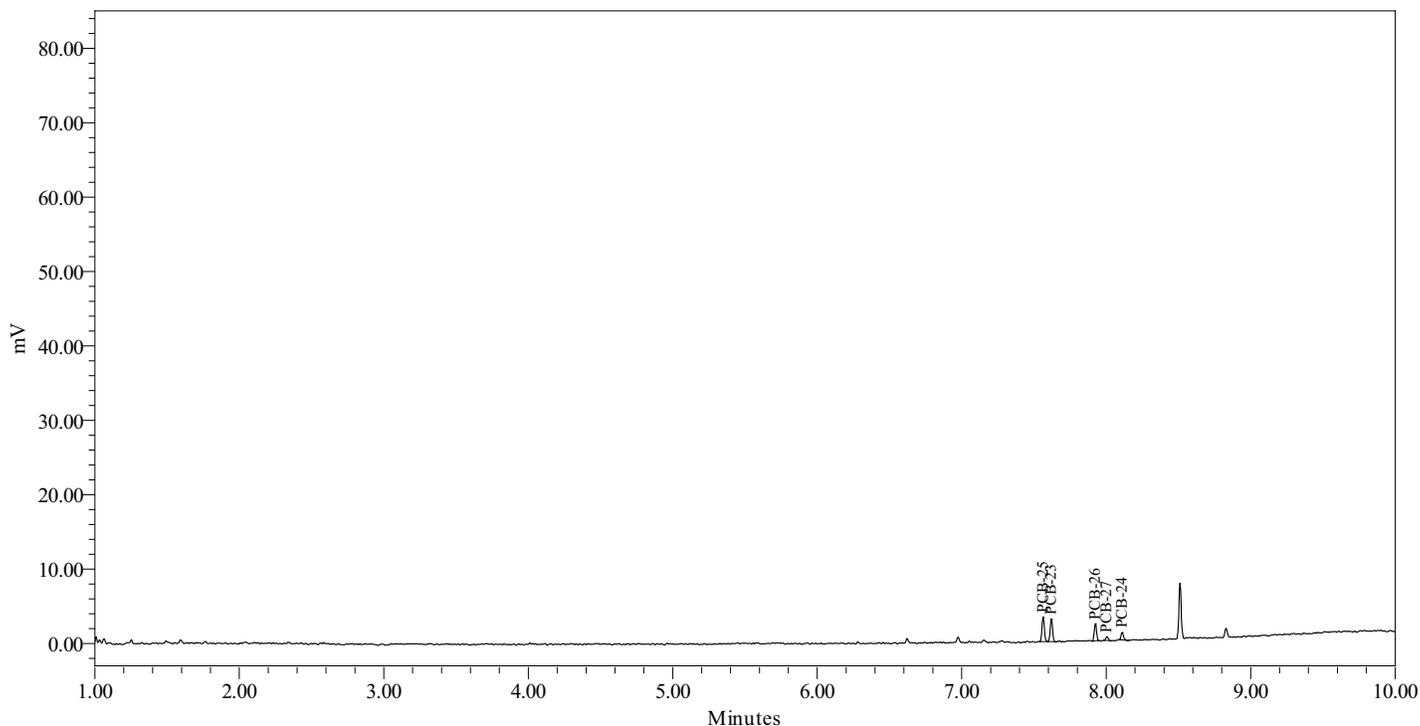
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 3694          |
| 2 PCB-23  | 7.621          | Vb               | 3546          |
| 3 PCB-26  | 7.926          | bb               | 2543          |
| 4 PCB-27  | 8.005          | bb               | 574           |
| 5 PCB-24  | 8.110          | bb               | 1194          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 4741                |                      |
| 2 A1260-20    | 4741                |                      |
| 3 A1262       | 4741                |                      |
| 4 A1268       | 11551               | 5.000                |
| 5 A1268-23/24 | 6811                | 5.000                |



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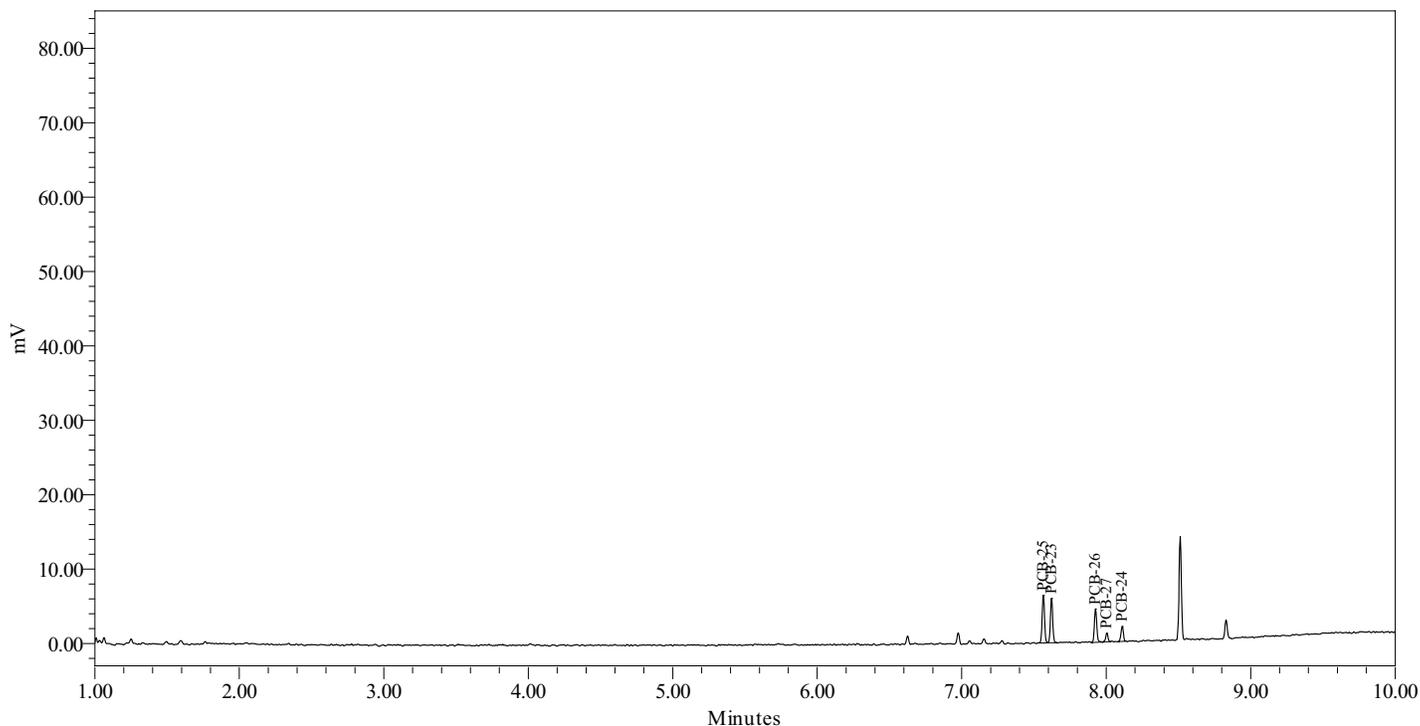
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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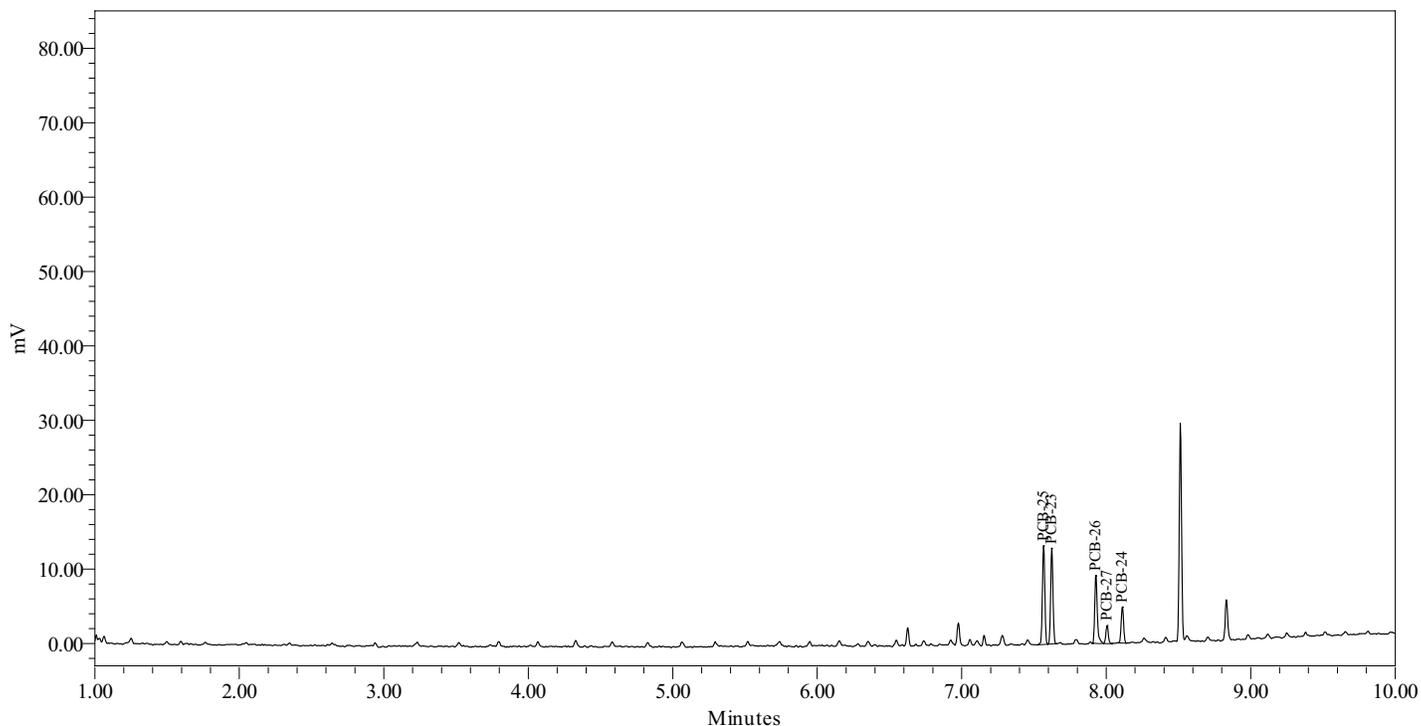
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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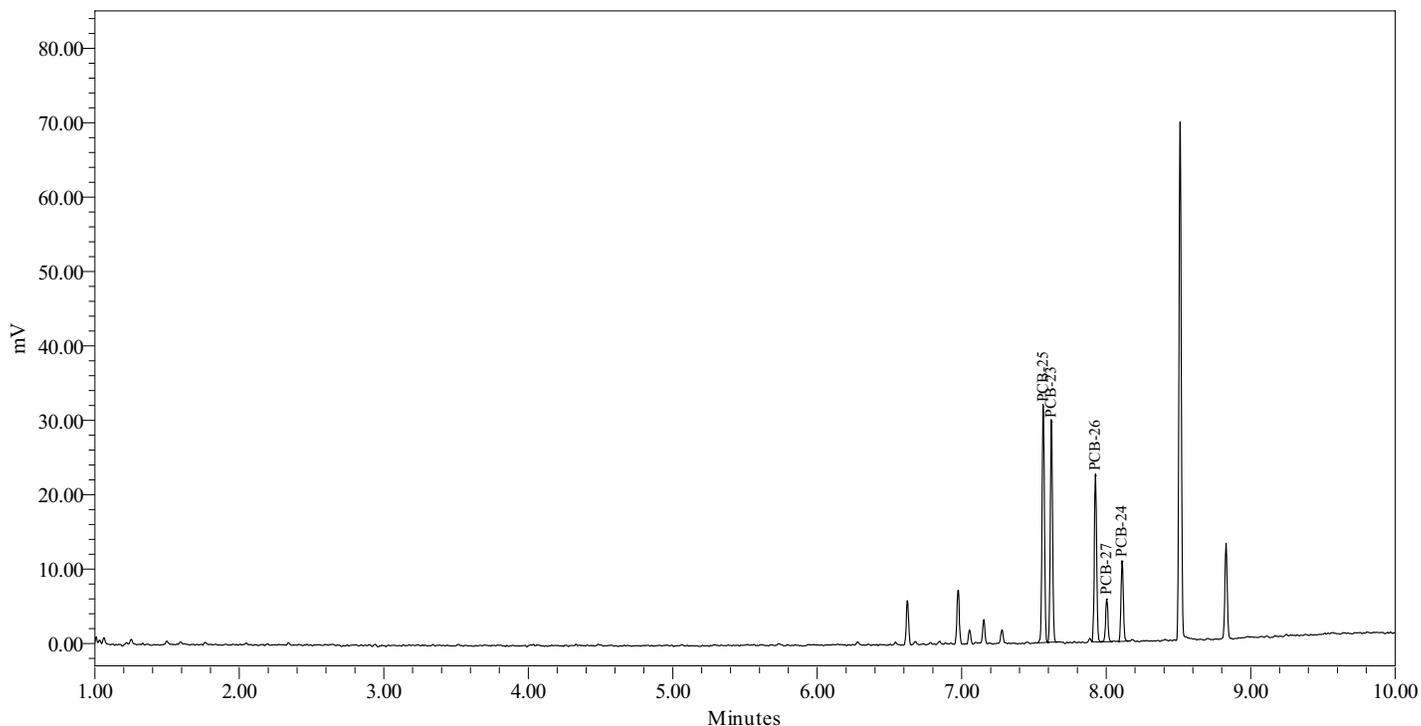
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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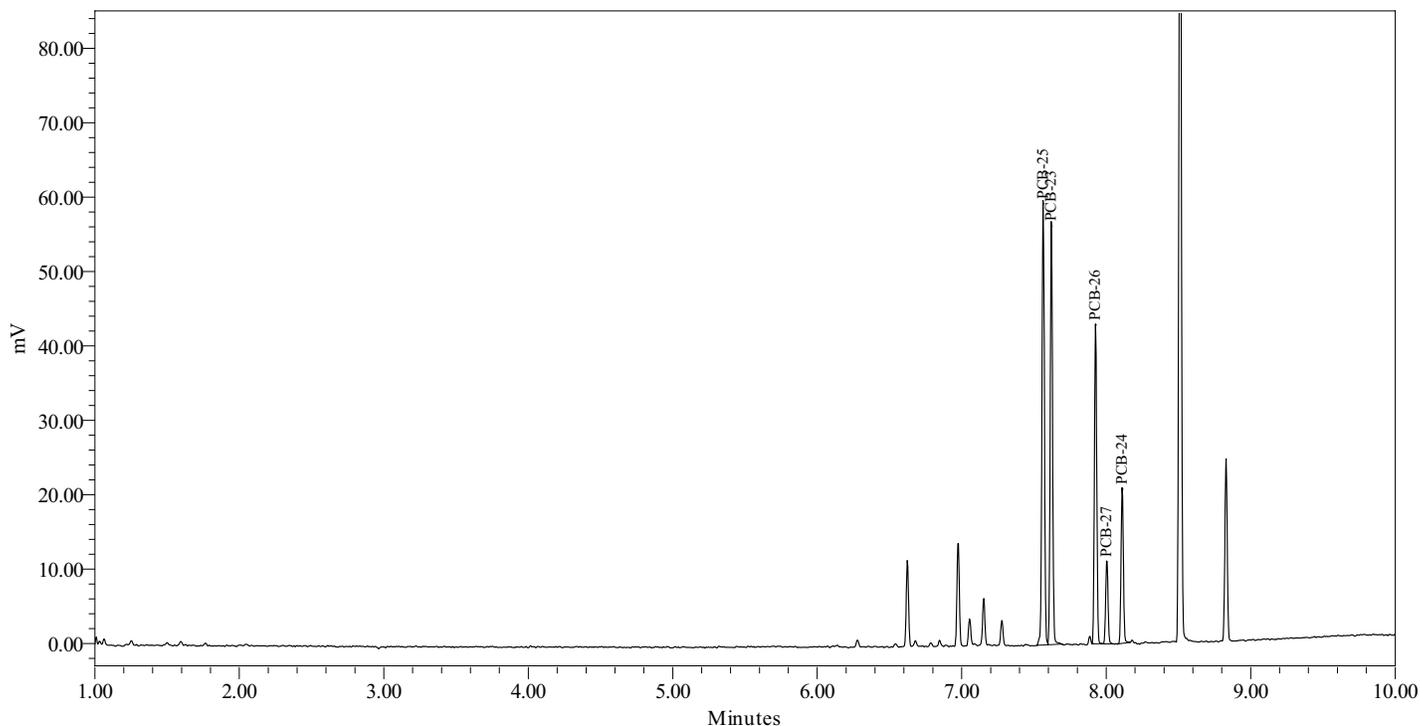
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



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# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SDG NO: 15060107

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1242 | GC28F-1633-22 | CS420604A     | CCV        | 57.3                | 50                 | 14.6               |   | 06/04/2015 18:03:19  |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV        | 52.3                | 50                 | 4.54               |   | 06/04/2015 20:31:19  |
| Aroclor 1232 | GC28F-1634-5  | CS320605A     | CCV        | 54.6                | 50                 | 9.10               |   | 06/05/2015 14:42:34  |
| Aroclor 1242 | GC28F-1634-15 | CS420605A     | CCV        | 56.1                | 50                 | 12.2               |   | 06/05/2015 17:15:36  |
| Aroclor 1221 | GC28F-1635-7  | CS210606A     | CCV        | 51.0                | 50                 | 2.01               |   | 06/06/2015 08:56:32  |
| Aroclor 1232 | GC28F-1635-13 | CS320606A     | CCV        | 47.6                | 50                 | -4.85              |   | 06/06/2015 11:18:27  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060107

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060107

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060107

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1221 | GC28F-1635-7  | CS210606A     | CCV         | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210606A     | CCV         | 2    | 2.29 | 2.22      | 2.38 |
|              |               | CS210606A     | CCV         | 3    | 2.58 | 2.51      | 2.67 |
|              |               | CS210606A     | CCV         | 4    | 2.68 | 2.61      | 2.77 |
|              |               | CS210606A     | CCV         | 5    | 2.75 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1634-5  | CS320605A     | CCV         | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320605A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS320605A     | CCV         | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320605A     | CCV         | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320605A     | CCV         | 5    | 3.95 | 3.87      | 4.03 |
|              | GC28F-1635-13 | CS320606A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320606A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS320606A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS320606A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320606A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1633-22 | CS420604A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420604A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420604A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420604A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420604A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
|              | GC28F-1634-15 | CS420605A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420605A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS420605A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420605A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420605A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV         | 1    | 5.17 | 5.11      | 5.27 |
|              |               | CS540604A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540604A     | CCV         | 3    | 5.54 | 5.48      | 5.64 |
|              |               | CS540604A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540604A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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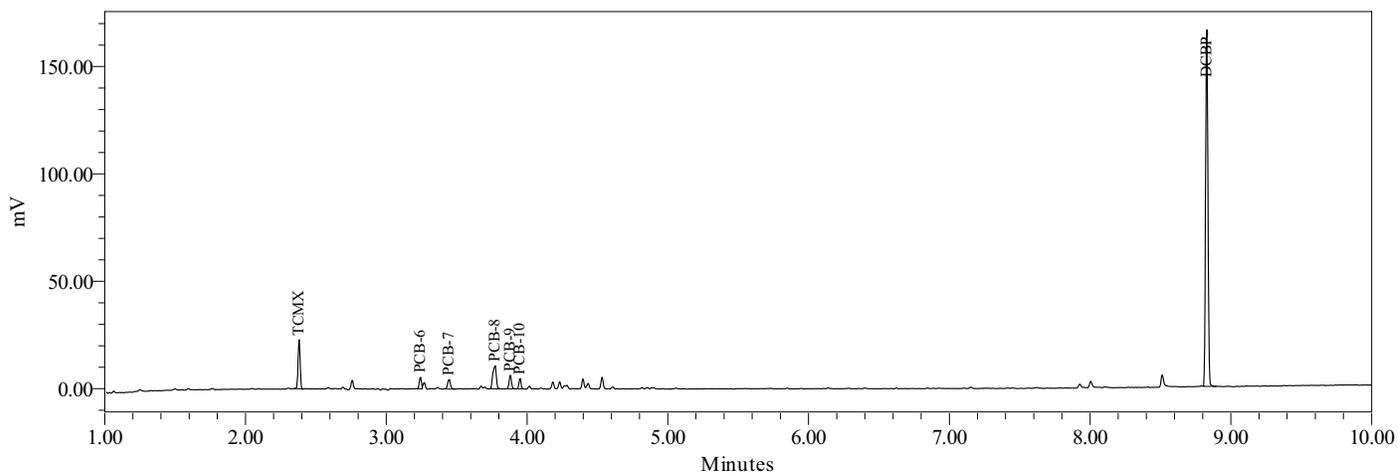
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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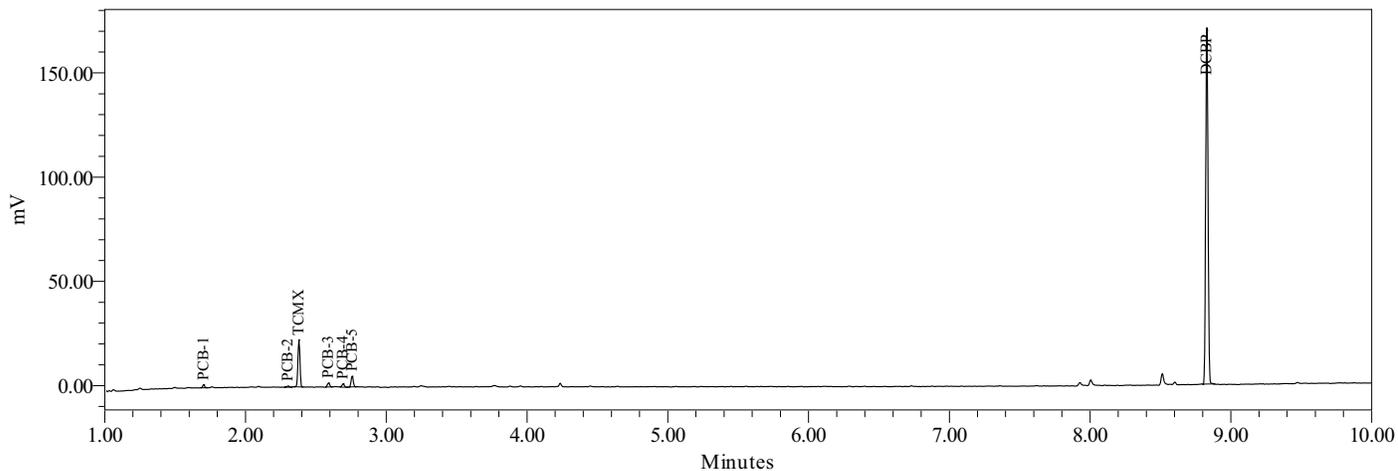
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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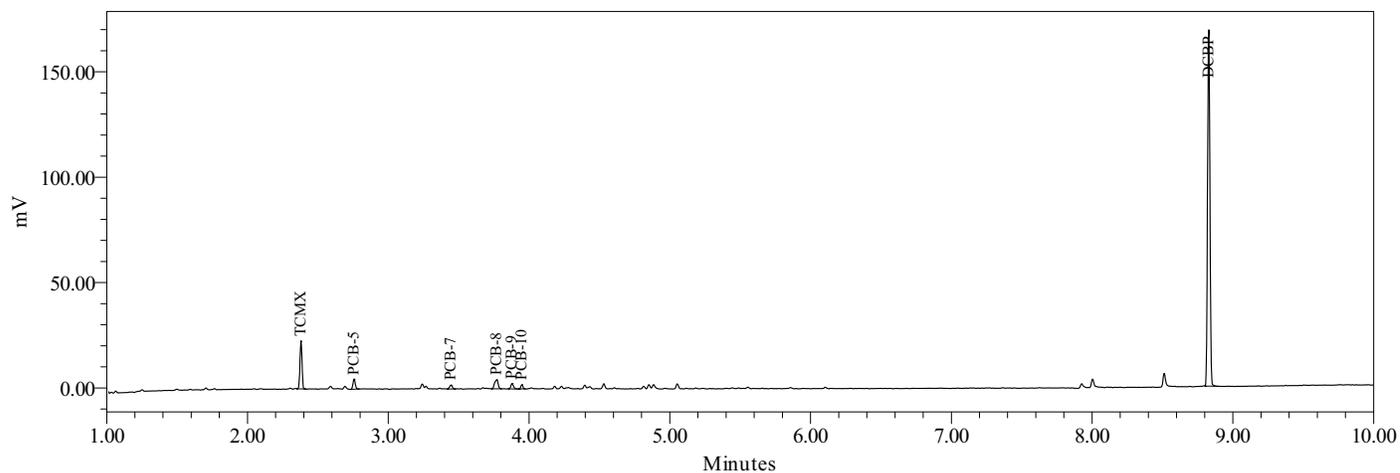
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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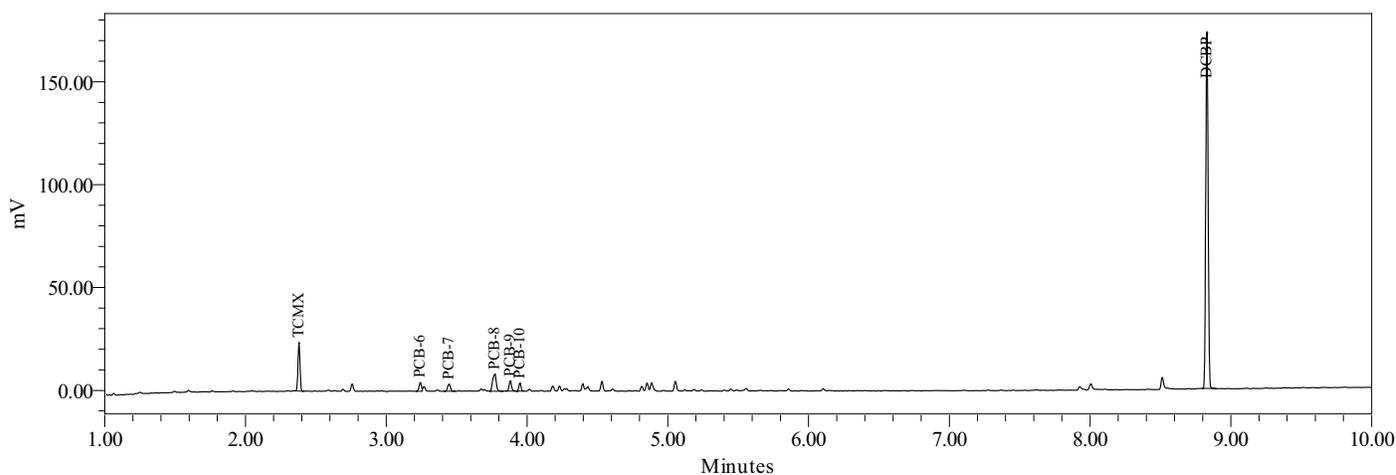
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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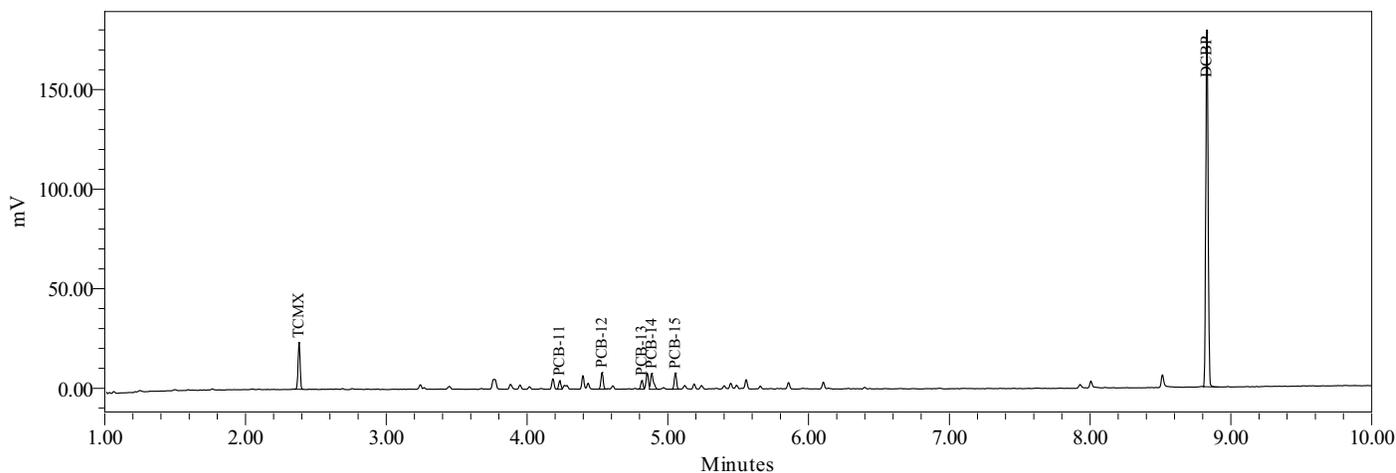
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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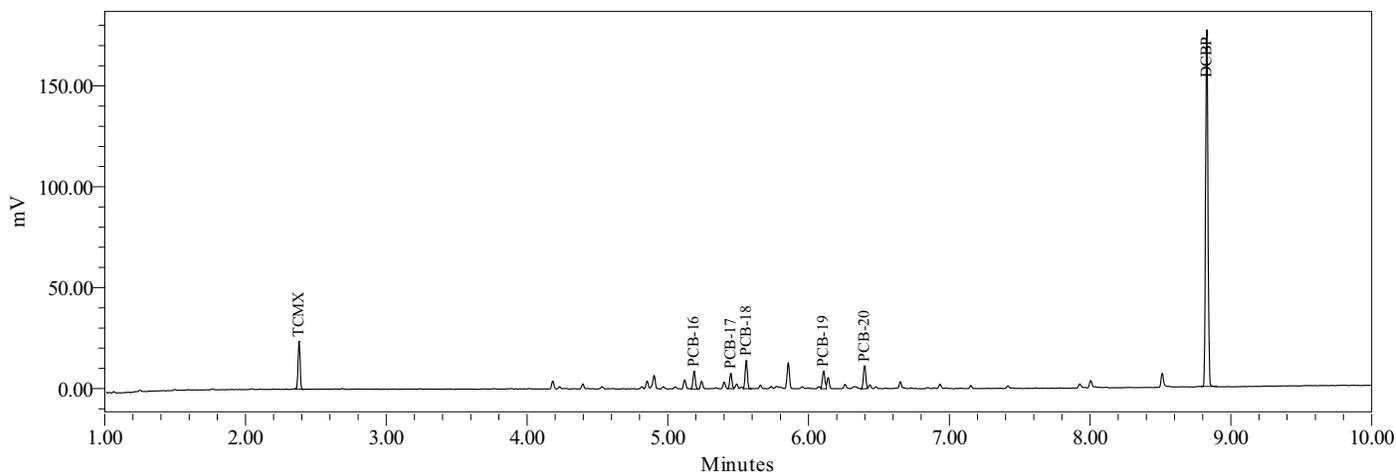
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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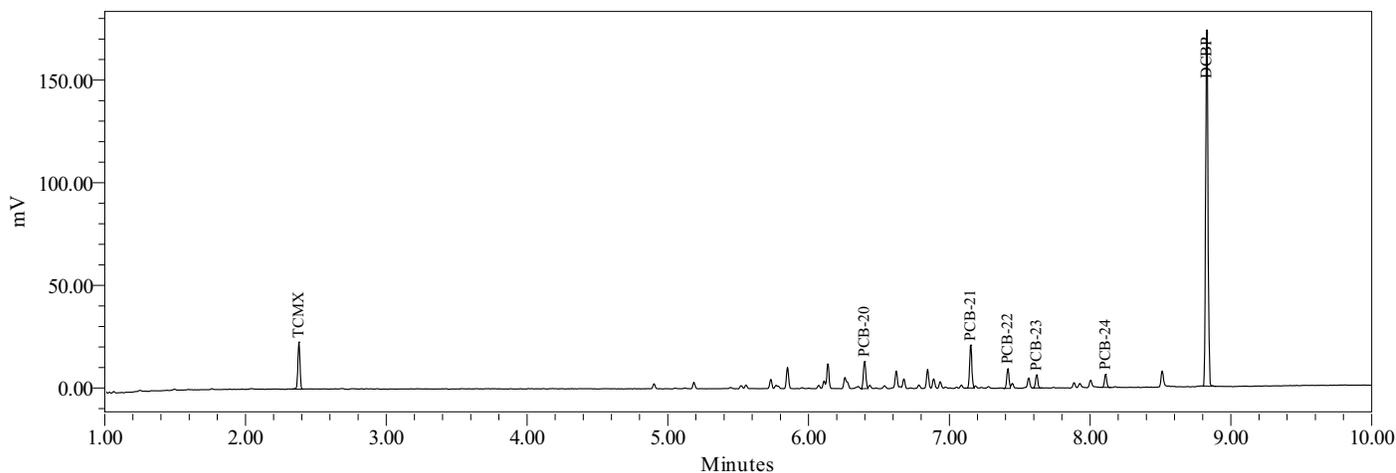
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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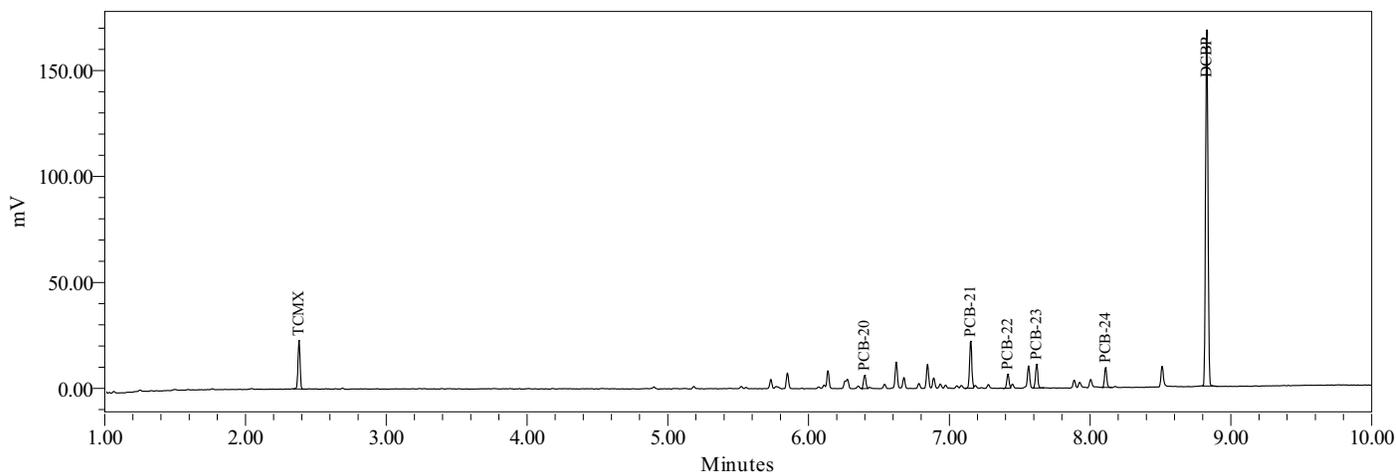
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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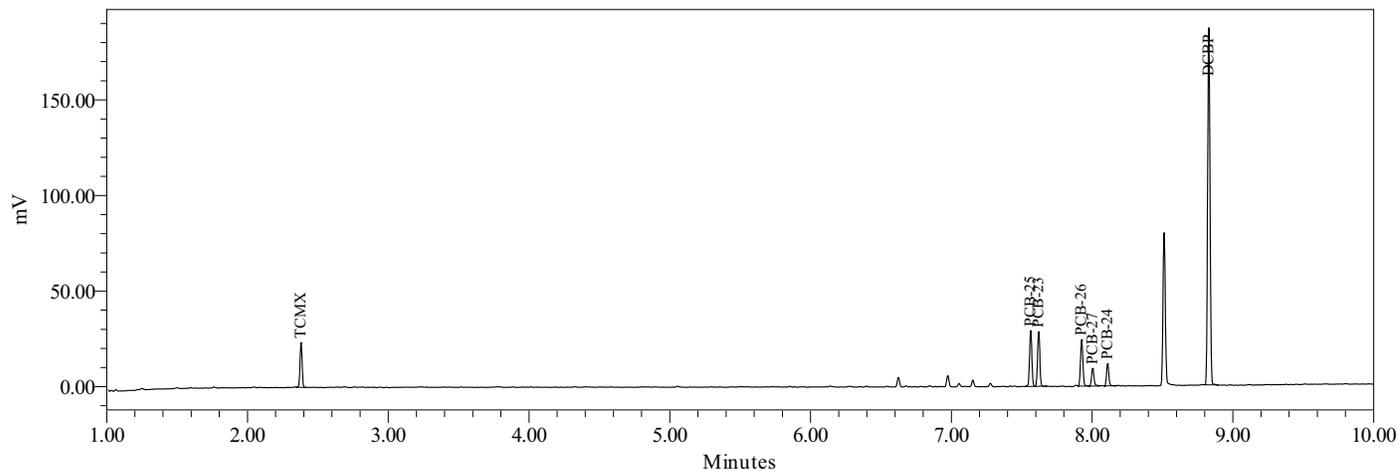
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



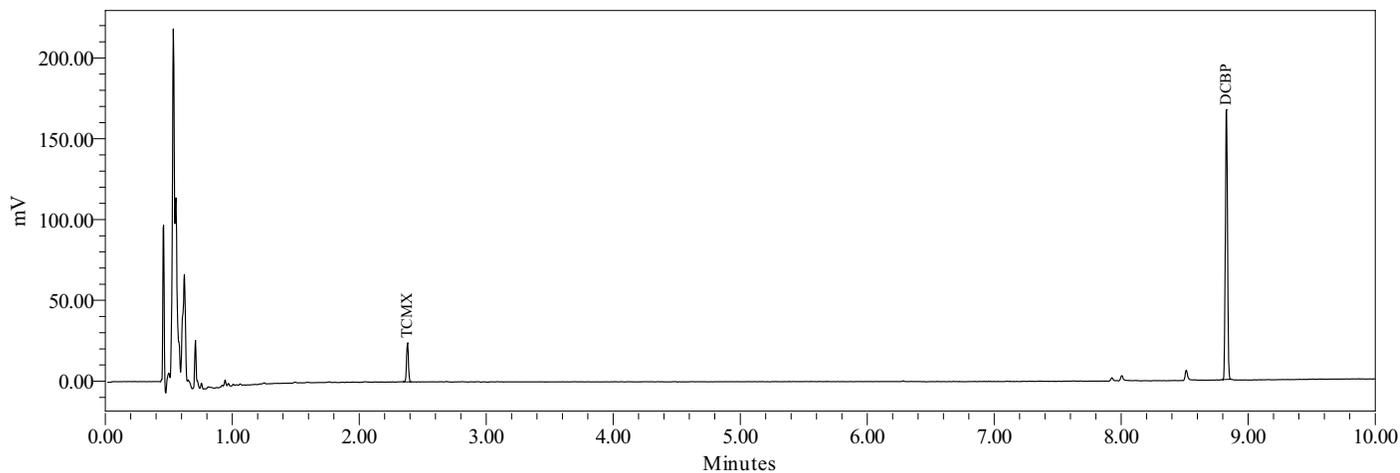
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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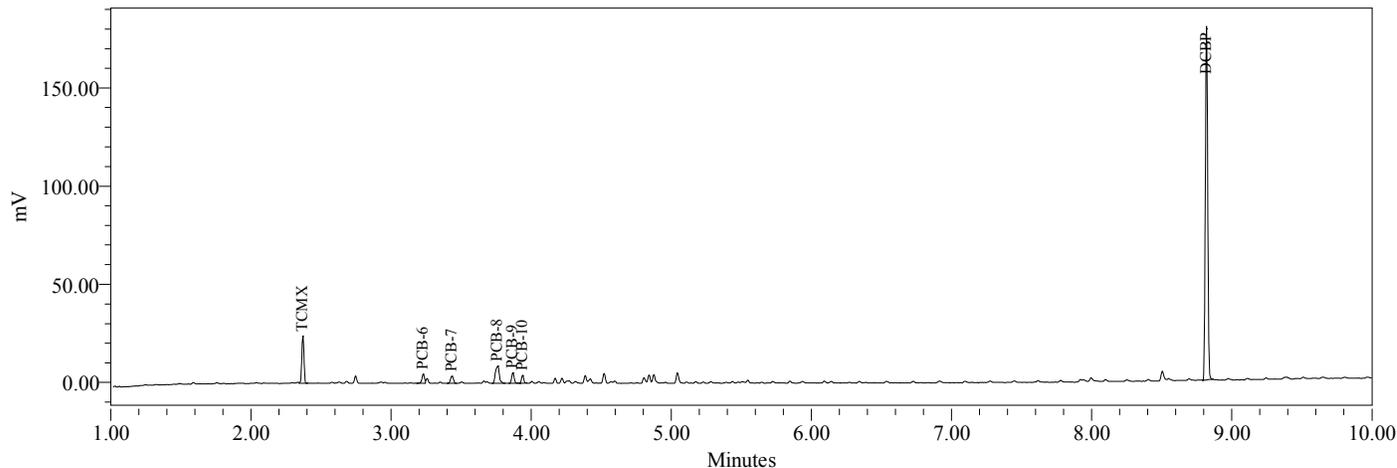
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|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS420604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 6:03:19 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 6:25:37 PM EDT     |
| Sample Set Name:   | GC28F_W_060415          | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:23:01 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-22 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | Vb               | 25514         | 5.234                | 104.7       |             |
| 2 PCB-6   | 3.230          | bV               | 5784          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 5104          |                      |             |             |
| 4 PCB-8   | 3.760          | bb               | 16472         |                      |             |             |
| 5 PCB-9   | 3.870          | bV               | 6321          |                      |             |             |
| 6 PCB-10  | 3.939          | Vb               | 4126          |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 207359        | 50.836               |             | 101.7       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 37807               | 44.790               | -10.42              |        |      |
| 2 A1232     | 32023               | 73.405               | 46.81               |        |      |
| 3 A1232-8/9 | 9229                | 44.829               | -10.34              |        |      |
| 4 A1242     | 37807               | 57.322               | 14.64               | X      |      |



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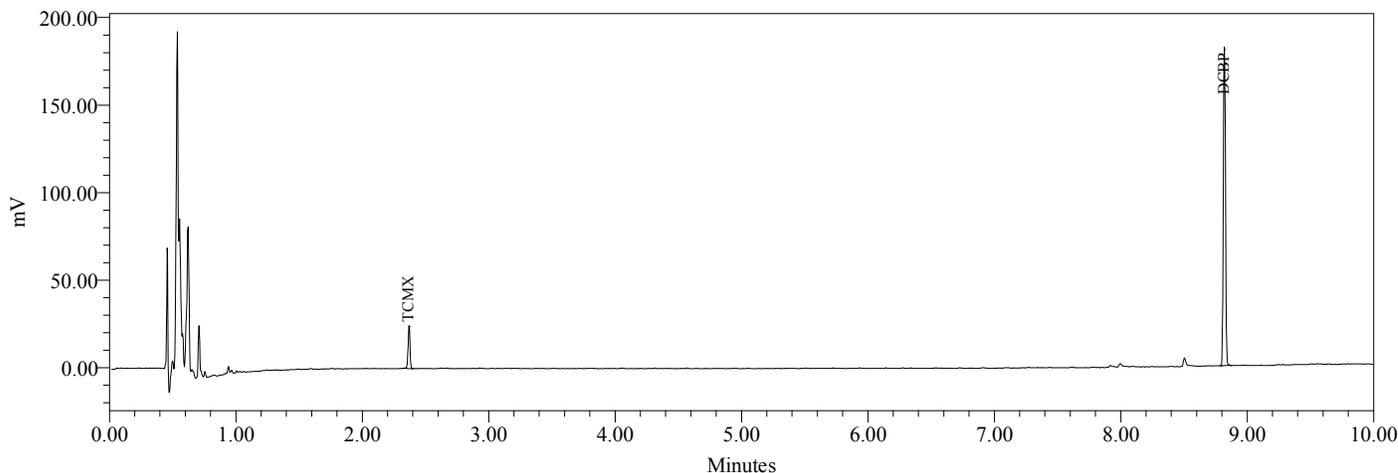
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Sample Name: 150604B08 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 6:17:21 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 6:29:36 PM EDT  
Sample Set Name: GC28F\_W\_060415 User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 9:19:29 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-23 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25784         | 5.291                | 105.81482 |           |
| 2 DCBP    | 8.820          | bb               | 215968        | 53.088               |           | 106.17616 |



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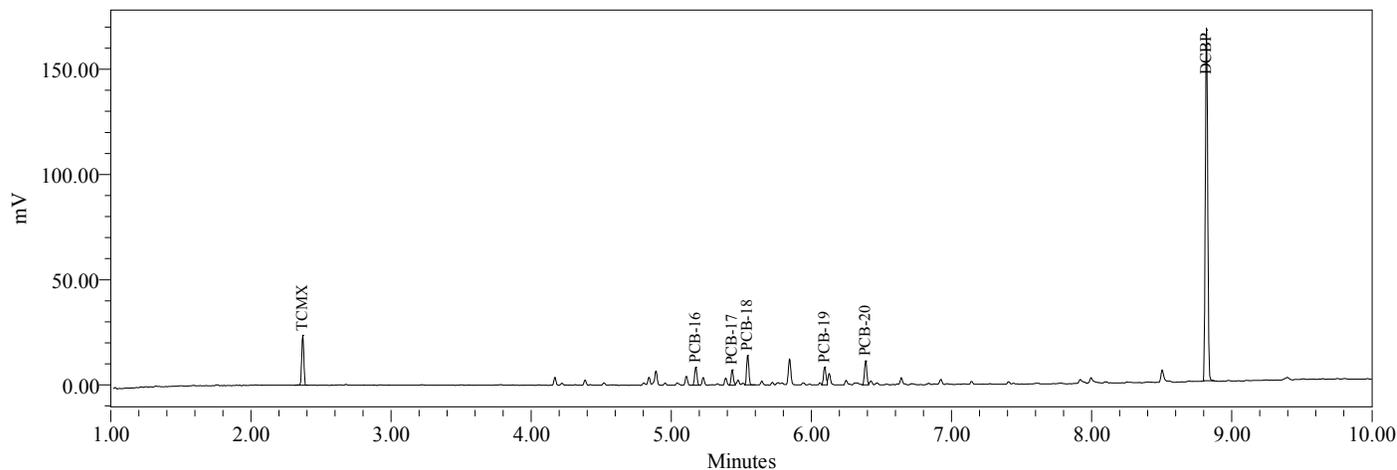
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS540604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 8:31:19 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 8:45:10 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:22:56 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-30 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | bb               | 25248         | 5.178                | 103.6       |             |
| 2 PCB-16  | 5.175          | bb               | 9730          |                      |             |             |
| 3 PCB-17  | 5.435          | VV               | 8465          |                      |             |             |
| 4 PCB-18  | 5.545          | Vb               | 15715         |                      |             |             |
| 5 PCB-19  | 6.096          | VV               | 10416         |                      |             |             |
| 6 PCB-20  | 6.387          | bV               | 13511         |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 194901        | 47.577               |             | 95.2        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 57837               | 52.270               | 4.54                | X      |      |
| 2 A1254-17/18 | 33657               | 52.276               | 4.55                |        |      |
| 3 A1254-19/20 | 33909               | 52.339               | 4.68                |        |      |
| 4 A1254-20    | 44326               | 52.062               | 4.12                |        |      |
| 5 A1260       | 13511               | 10.963               | -78.07              |        |      |
| 6 A1260-23/24 | 13511               | 14.002               | -72.00              |        |      |
| 7 A1262       | 13511               | 9.945                | -80.11              |        |      |



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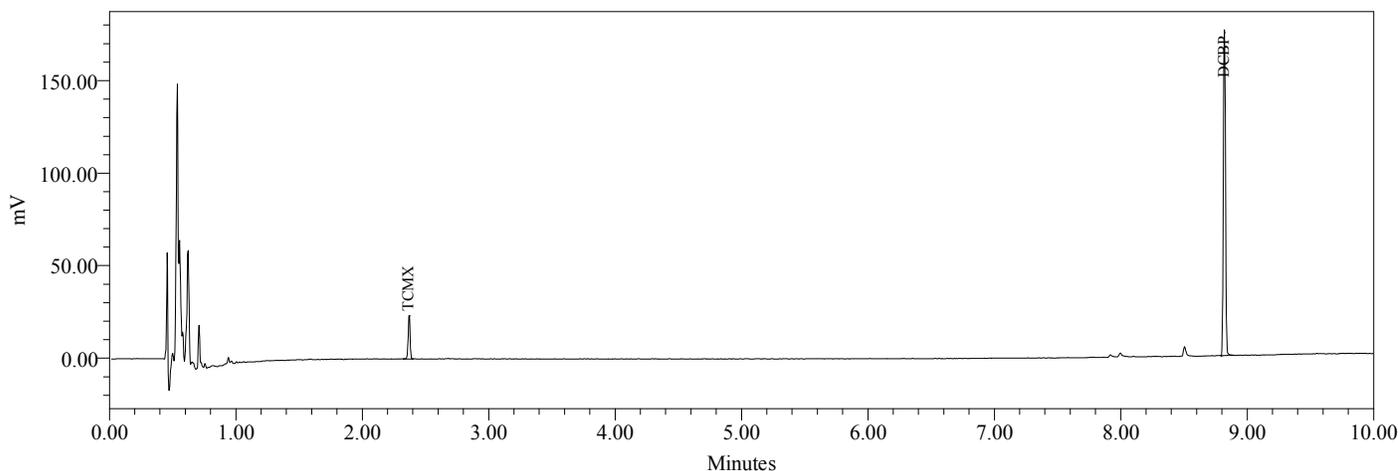
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|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | 150604B11               | Sample Amount:  | 1                           |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 8:45:18 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 8:56:32 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:19:23 PM US/Eastern       |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1633-31 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25024         | 5.132                | 102.63042 |           |
| 2 DCBP    | 8.820          | bb               | 207479        | 50.867               |           | 101.73474 |



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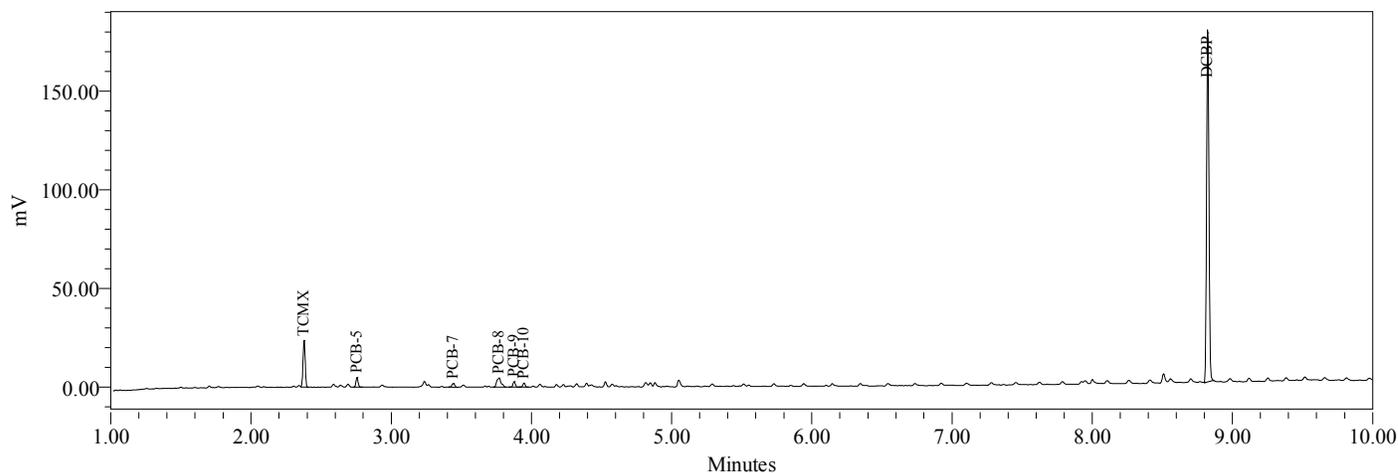
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|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS320605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 2:42:34 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 3:21:29 PM EDT      |
| Sample Set Name:   | GC28F_060515            | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:33:12 PM US/Eastern        |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-5 [A]             |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.378          | VB               | 25321         | 5.194                | 103.9       |             |
| 2 PCB-5   | 2.756          | BB               | 5403          |                      |             |             |
| 3 PCB-7   | 3.443          | BB               | 2718          |                      |             |             |
| 4 PCB-8   | 3.769          | BB               | 9889          |                      |             |             |
| 5 PCB-9   | 3.877          | BV               | 3366          |                      |             |             |
| 6 PCB-10  | 3.946          | VB               | 2424          |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 206600        | 50.637               |             | 101.3       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 18397               | 21.702               | -56.60              |        |      |
| 2 A1221     | 5403                | 21.532               | -56.94              |        |      |
| 3 A1221-2   | 5403                | 23.197               | -53.61              |        |      |
| 4 A1232     | 23799               | 54.552               | 9.10                | X      |      |
| 5 A1232-8/9 | 10544               | 51.282               | 2.56                |        |      |
| 6 A1242     | 18397               | 27.801               | -44.40              |        |      |



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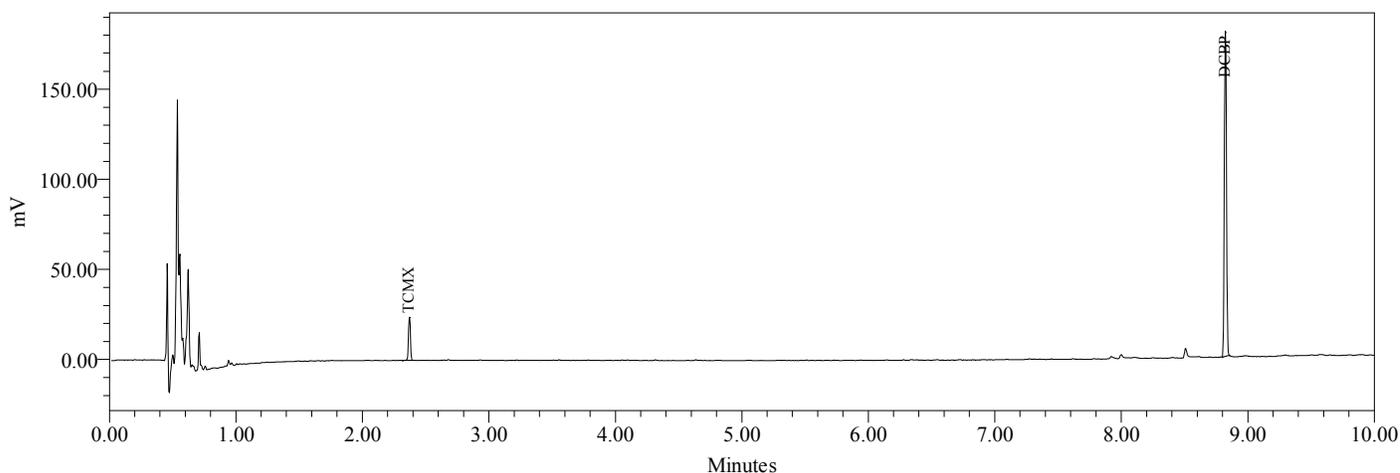
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Sample Name: 150605B04 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/5/2015 2:56:36 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/5/2015 3:21:06 PM EDT  
Sample Set Name: GC28F\_060515 User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/5/2015  
Run Time: 10.0 Minutes Current Time: 6:33:36 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1634-6 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.373          | BB               | 25778         | 5.290                | 105.79126 |           |
| 2 DCBP    | 8.824          | BB               | 212224        | 52.109               |           | 104.21723 |



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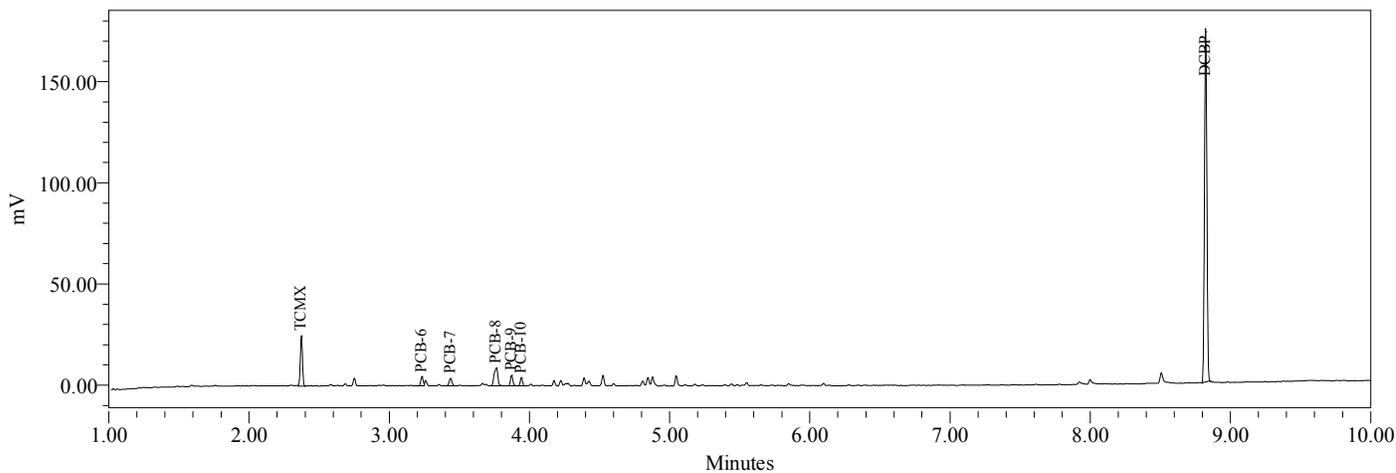
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS420605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 5:15:36 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 5:44:57 PM EDT      |
| Sample Set Name:   | GC28F_060515a           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:33:07 PM US/Eastern        |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-15 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | vB               | 25889         | 5.313                | 106.3       |             |
| 2 PCB-6   | 3.233          | VV               | 5342          |                      |             |             |
| 3 PCB-7   | 3.437          | BB               | 5005          |                      |             |             |
| 4 PCB-8   | 3.764          | BB               | 15648         |                      |             |             |
| 5 PCB-9   | 3.873          | BV               | 6494          |                      |             |             |
| 6 PCB-10  | 3.942          | VV               | 4511          |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 204597        | 50.113               |             | 100.2       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 37000               | 43.831               | -12.34              |        |      |
| 2 A1232     | 31658               | 72.569               | 45.14               |        |      |
| 3 A1232-8/9 | 9516                | 46.235               | -7.53               |        |      |
| 4 A1242     | 37000               | 56.094               | 12.19               | X      |      |



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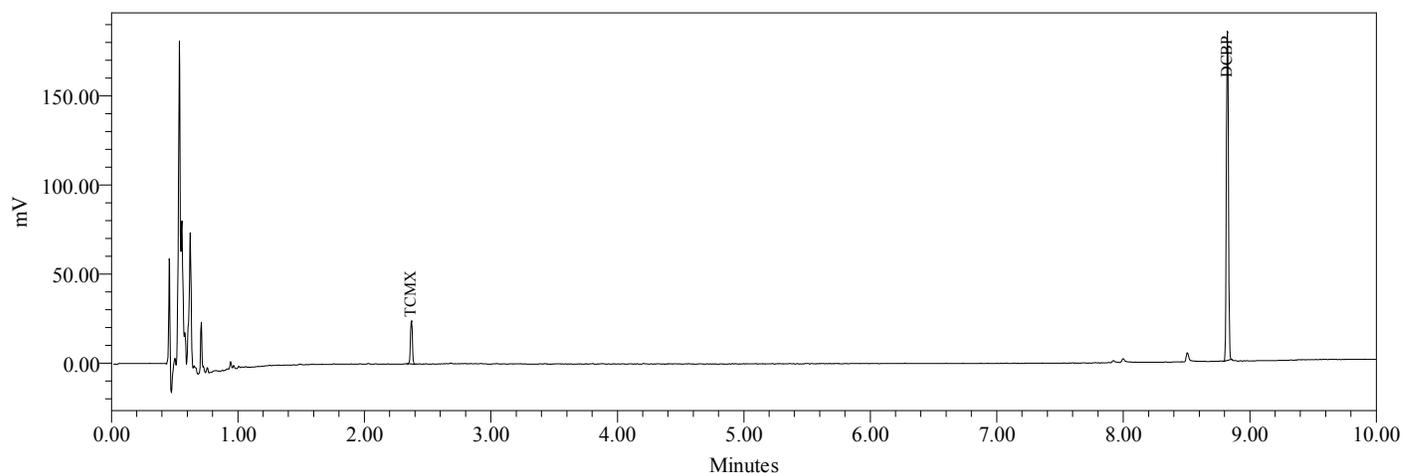
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Sample Name: 150605B06 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/5/2015 5:29:14 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/5/2015 5:45:12 PM EDT  
Sample Set Name: GC28F\_060515a User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/5/2015  
Run Time: 10.0 Minutes Current Time: 6:33:44 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1634-16 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.372          | BB               | 25639         | 5.260                | 105.20888 |           |
| 2 DCBP    | 8.824          | BB               | 209893        | 51.499               |           | 102.99752 |



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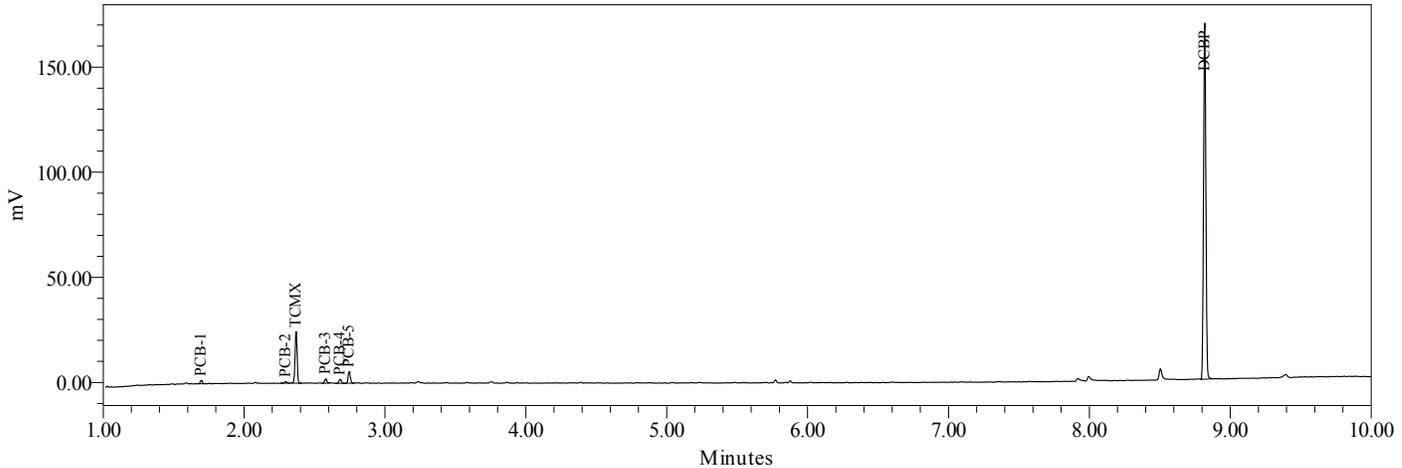
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS210606A               | Sample Amount:  | 1                       |
| Sample ID:         | A1221 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 8:56:32 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:17:09 AM EDT |
| Sample Set Name:   | GC28F_w_060615          | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 12:02:52 PM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1635-7 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.696          | bb               | 1531          |                      |             |             |
| 2 PCB-2   | 2.294          | bb               | 767           |                      |             |             |
| 3 TCMX    | 2.370          | bb               | 24860         | 5.097                | 101.9       |             |
| 4 PCB-3   | 2.579          | bb               | 2318          |                      |             |             |
| 5 PCB-4   | 2.682          | bV               | 2201          |                      |             |             |
| 6 PCB-5   | 2.746          | Vb               | 6003          |                      |             |             |
| 7 DCBP    | 8.819          | bb               | 198666        | 48.562               |             | 97.1        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 12820               | 51.005               | 2.01                | X      |      |
| 2 A 1221-2   | 12053               | 50.992               | 1.98                |        |      |
| 3 A 1221-5   | 6817                | 54.444               | 8.89                |        |      |
| 4 A 1232     | 6003                | 13.753               | -72.49              |        |      |
| 5 A 1232-8/9 | 6003                | 28.992               | -42.02              |        |      |

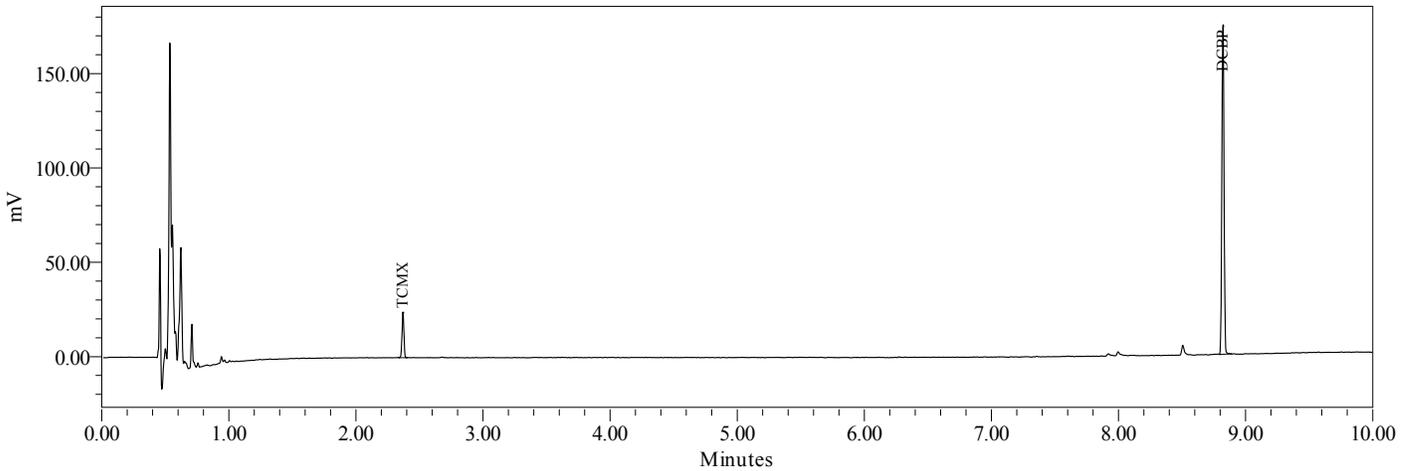


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150606B05               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 9:10:23 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:23:41 AM EDT |
| Sample Set Name:   | GC28F_w_060615          | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 12:03:45 PM US/Eastern  |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1635-8 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.370          | bb               | 25185         | 5.165                | 103.30641 |           |
| 2 | DCBP      | 8.822          | bb               | 210100        | 51.553               |           | 103.10597 |



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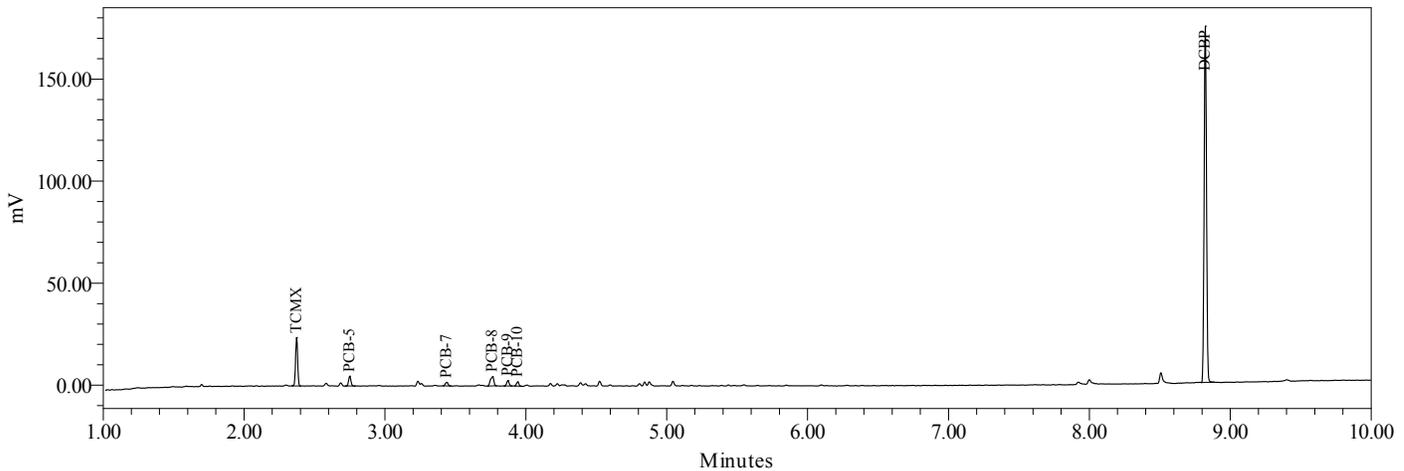
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320606A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/6/2015 11:18:27 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/6/2015 11:34:31 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 12:03:13 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1635-13 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | bb               | 24632         | 5.049                | 101.0       |             |
| 2 PCB-5   | 2.750          | Bb               | 5415          |                      |             |             |
| 3 PCB-7   | 3.438          | bb               | 2302          |                      |             |             |
| 4 PCB-8   | 3.763          | bb               | 7631          |                      |             |             |
| 5 PCB-9   | 3.873          | bb               | 3121          |                      |             |             |
| 6 PCB-10  | 3.942          | bb               | 2287          |                      |             |             |
| 7 DCBP    | 8.823          | bb               | 205769        | 50.420               |             | 100.8       |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15340               | 18.067               | -63.87              |        |      |
| 2 A 1221     | 5415                | 21.580               | -56.84              |        |      |
| 3 A 1221-2   | 5415                | 23.247               | -53.51              |        |      |
| 4 A 1232     | 20755               | 47.573               | -4.85               | X      |      |
| 5 A 1232-8/9 | 10003               | 48.627               | -2.75               |        |      |
| 6 A 1242     | 15340               | 23.153               | -53.69              |        |      |

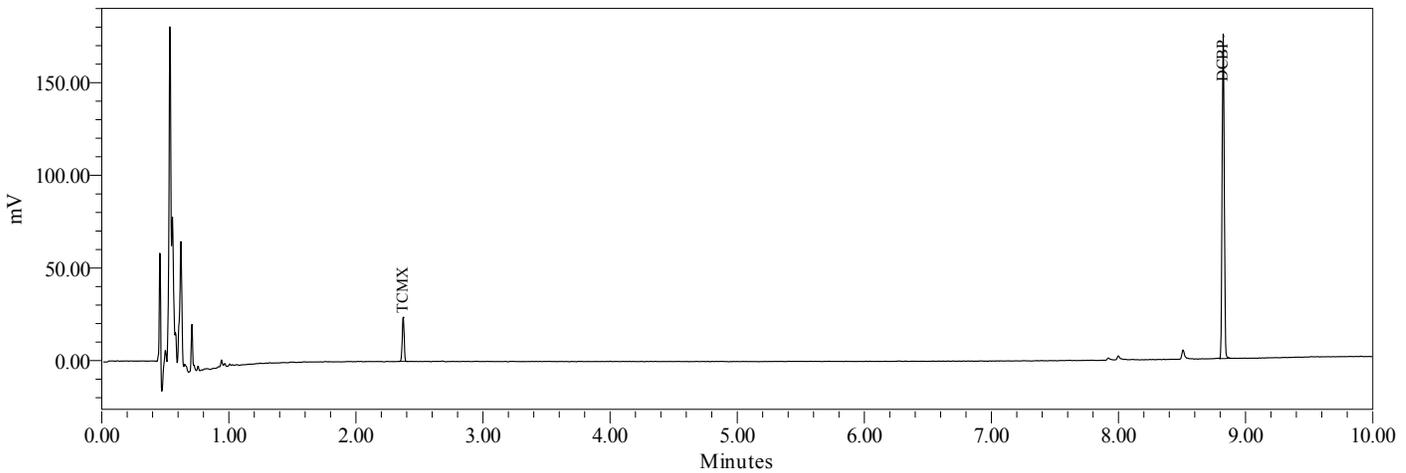


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150606B06                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 6/6/2015 11:32:33 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/6/2015 11:43:45 AM EDT |
| Sample Set Name:   | GC28F_w_060615a          | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/6/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 12:05:38 PM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1635-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | bb               | 25174         | 5.163                | 103.25863 |           |
| 2 | DCBP      | 8.824          | bb               | 209510        | 51.399               |           | 102.79738 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-07RR1</u>         |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11838BRR1</u> |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-28</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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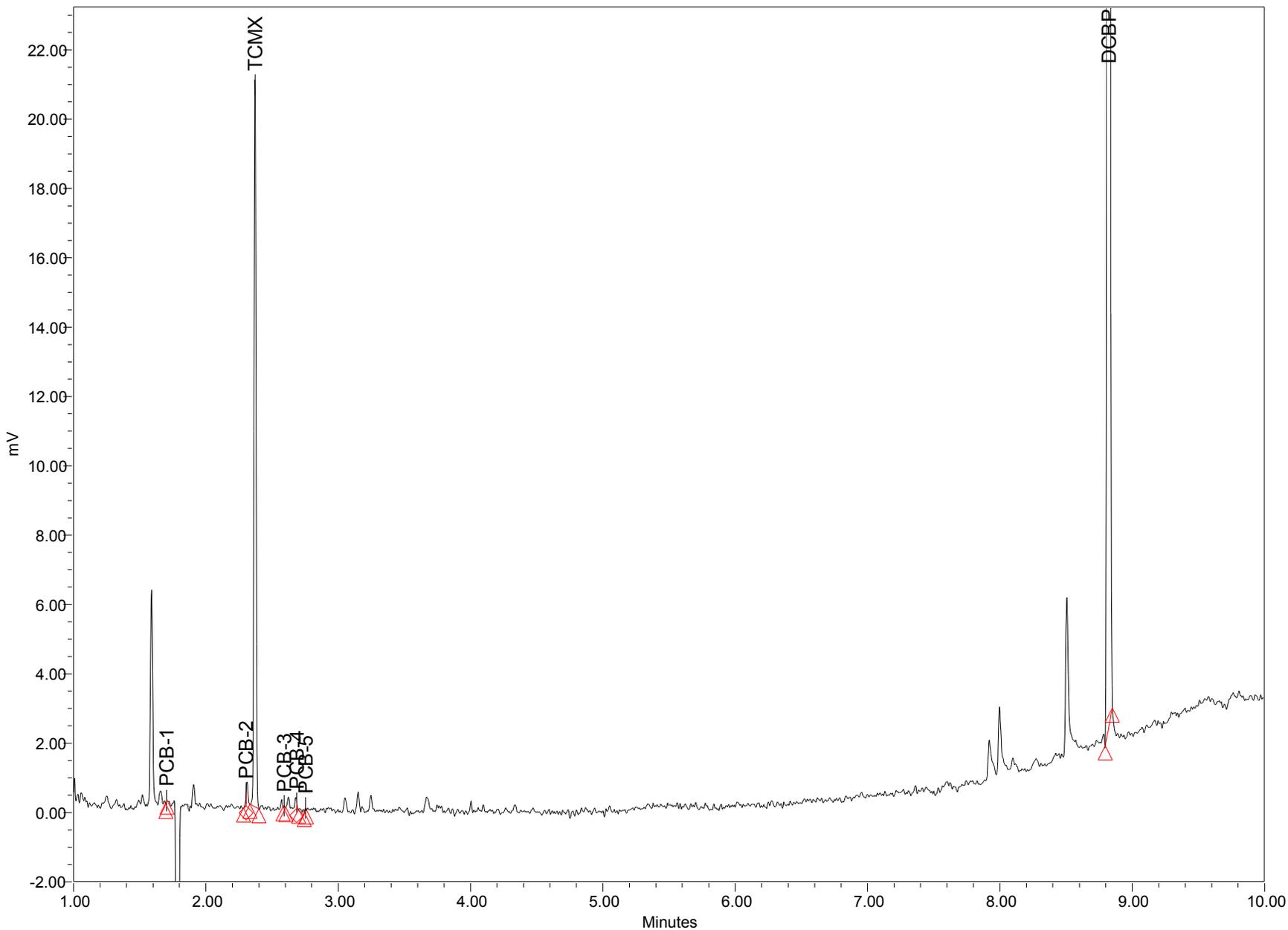
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838BRR1             | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 8:03:30 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:54:49 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:43 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-28 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | PCB-1     | 1.703          | bb               | 12            |                      |             |             |
| 2 | PCB-2     | 2.303          | bv               | 101           |                      |             |             |
| 3 | TCMX      | 2.371          | bb               | 22160         | 4.532                | 90.6        |             |
| 4 | PCB-3     | 2.592          | bb               | 20            |                      |             |             |
| 5 | PCB-4     | 2.687          | vb               | 31            |                      |             |             |
| 6 | PCB-5     | 2.752          | bb               | 53            |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 204260        | 50.025               |             | 100         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1221      | 217.8190            | 0.930                | 0.00465     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221-2    | 116.3673            | 1.104                | 0.00552     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1221-5    | 164.5471            | 1.725                | 0.00862     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1232      | 53.2718             | 0.112                | 0.00056     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232-8/9  | 53.2718             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11838BRR1; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060107</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-07RR1</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11838LRR1</u>   |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-29</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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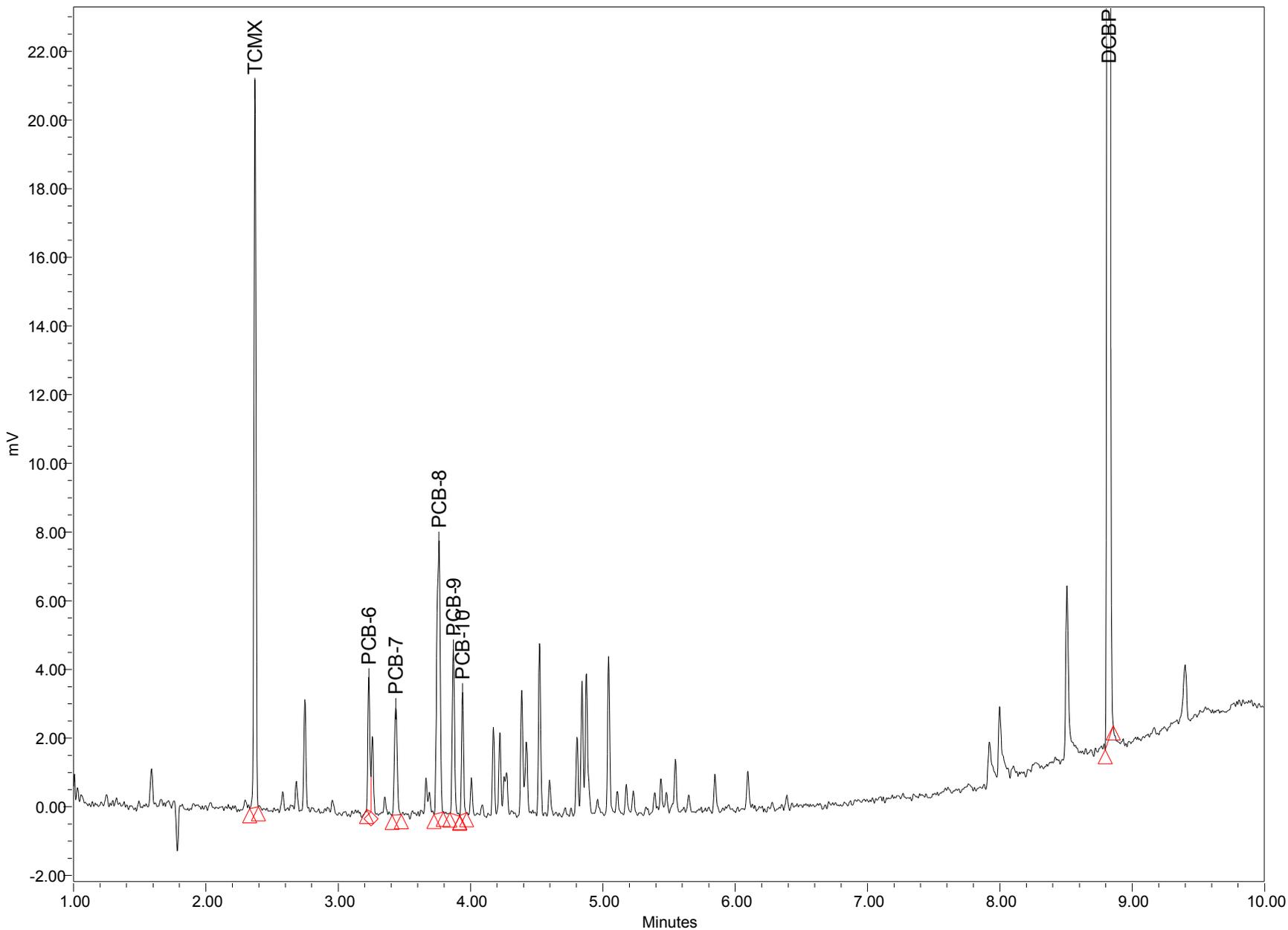
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838LRR1             | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 8:17:30 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:30:30 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:48 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-29 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | bb               | 22340         | 4.570                | 91.4        |             |
| 2 | PCB-6     | 3.231          | bV               | 4213          |                      |             |             |
| 3 | PCB-7     | 3.435          | bb               | 4528          |                      |             |             |
| 4 | PCB-8     | 3.761          | bb               | 13926         |                      |             |             |
| 5 | PCB-9     | 3.870          | bB               | 5767          |                      |             |             |
| 6 | PCB-10    | 3.939          | Bb               | 3798          |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 204712        | 50.144               |             | 100         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32231.0512          | 38.158               | 0.19079     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 28018.4004          | 64.225               | 0.32112     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8325.4498           | 40.392               | 0.20196     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32231.0512          | 48.842               | 0.24421     | 0.0250   | 0.00873  | X      |      |



SampleName AS11838LRR1; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-FDBL-T150603120634  
**Lab Sample ID:** 15060107-01 (AS11827)

**Collection Date:** 06/03/2015 11:58  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1634-12 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 16:33 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943         | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1221          | 11104-28-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-12 |
| Total PCB Amount > RL | 1336-36-3  | ND            |        | 1.00            | U     | GC28F-1634-12 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 94.7       | 70.0-130   |                | GC28F-1634-12 |
| Decachlorobiphenyl      | 2051-24-3 | 106        | 70.0-130   |                | GC28F-1634-12 |

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.  
 This is not a NYSDOH ELAP certified method.



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-STWA-T150603120444  
**Lab Sample ID:** 15060107-02 (AS11828)

**Collection Date:** 06/03/2015 12:04  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1635-12 | NE273_04 (Quick TAT Aroclor Method) | 06/06/2015 11:04 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30943             | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-12 |
| Aroclor 1221          | 11104-28-2 | <b>0.186</b>  | 0.0250 | 1.00            | PB    | GC28F-1635-12 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-12 |
| Aroclor 1242          | 53469-21-9 | <b>0.0253</b> | 0.0250 | 1.00            | AD    | GC28F-1635-12 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-12 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-12 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-12 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2113</b> |        | 1.00            |       | GC28F-1635-12 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 96.5       | 70.0-130   |                | GC28F-1635-12 |
| Decachlorobiphenyl      | 2051-24-3 | 98.7       | 70.0-130   |                | GC28F-1635-12 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150603081831  
**Lab Sample ID:** 15060107-03 (AS11829)

**Collection Date:** 06/03/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1634-7 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 15:24 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943        | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1070 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-7 |
| Aroclor 1221          | 11104-28-2 | <b>0.0965</b> | 0.0250 | 1.00            | PB    | GC28F-1634-7 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-7 |
| Aroclor 1242          | 53469-21-9 | <b>0.0299</b> | 0.0250 | 1.00            | AD    | GC28F-1634-7 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-7 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-7 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-7 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1264</b> |        | 1.00            |       | GC28F-1634-7 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 86.7       | 70.0-130   |                | GC28F-1634-7 |
| Decachlorobiphenyl      | 2051-24-3 | 78.7       | 70.0-130   |                | GC28F-1634-7 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150603081924  
**Lab Sample ID:** 15060107-04 (AS11830)

**Collection Date:** 06/03/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1635-9 | NE273_04 (Quick TAT Aroclor Method) | 06/06/2015 10:22 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943        | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-9 |
| Aroclor 1221          | 11104-28-2 | 0.135         | 0.0250 | 1.00            | PB    | GC28F-1635-9 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-9 |
| Aroclor 1242          | 53469-21-9 | 0.0101        | 0.0250 | 1.00            | AD,J  | GC28F-1635-9 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-9 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-9 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-9 |
| Total PCB Amount > RL | 1336-36-3  | 0.1451        |        | 1.00            |       | GC28F-1635-9 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 93.7       | 70.0-130   |                | GC28F-1635-9 |
| Decachlorobiphenyl      | 2051-24-3 | 98.0       | 70.0-130   |                | GC28F-1635-9 |

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-187.70-T150603082254 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-05 (AS11831)       | <b>Percent Solid:</b> N/A                |

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1635-10 | NE273_04 (Quick TAT Aroclor Method) | 06/06/2015 10:36 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30943             | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1020 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Aroclor 1221          | 11104-28-2 | <b>0.0315</b> | 0.0250 | 1.00            | PB    | GC28F-1635-10 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-10 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.0315</b> |        | 1.00            |       | GC28F-1635-10 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 94.1       | 70.0-130   |                | GC28F-1635-10 |
| Decachlorobiphenyl      | 2051-24-3 | 97.7       | 70.0-130   |                | GC28F-1635-10 |

<sup>1</sup>Qualifier column where '\*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-189.10-T150603082057  
**Lab Sample ID:** 15060107-06 (AS11832)

**Collection Date:** 06/03/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column  |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|---|
| Analysis 1: | GC28F-1634-10 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 16:05 | AMR     | NA            | NA         | Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943         | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1070 mL       | 5.00 mL    | NA  |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Aroclor 1221          | 11104-28-2 | 0.0271        | 0.0250 | 1.00            | PB    | GC28F-1634-10 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-10 |
| Total PCB Amount > RL | 1336-36-3  | 0.0271        |        | 1.00            |       | GC28F-1634-10 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 97.5       | 70.0-130   |                | GC28F-1634-10 |
| Decachlorobiphenyl      | 2051-24-3 | 99.6       | 70.0-130   |                | GC28F-1634-10 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060107

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-BDUP-T150603081852  
**Lab Sample ID:** 15060107-07 (AS11833)

**Collection Date:** 06/03/2015  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column  |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|---|
| Analysis 1: | GC28F-1635-11 | NE273_04 (Quick TAT Aroclor Method) | 06/06/2015 10:50 | AMR     | NA            | NA         | Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943         | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1070 mL       | 5.00 mL    | NA  |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-11 |
| Aroclor 1221          | 11104-28-2 | <b>0.103</b>  | 0.0250 | 1.00            | PB    | GC28F-1635-11 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-11 |
| Aroclor 1242          | 53469-21-9 | <b>0.0369</b> | 0.0250 | 1.00            | AD    | GC28F-1635-11 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-11 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-11 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1635-11 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1399</b> |        | 1.00            |       | GC28F-1635-11 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 92.7       | 70.0-130   |                | GC28F-1635-11 |
| Decachlorobiphenyl      | 2051-24-3 | 89.3       | 70.0-130   |                | GC28F-1635-11 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



|                |                              |                                  |                             |                                  |
|----------------|------------------------------|----------------------------------|-----------------------------|----------------------------------|
| <b>Start:</b>  | Batch ID: <b>2112</b>        | Date In Oven: <u>06/04/2015</u>  | Temp: <u>103.3 degree C</u> | Analyst: <u>Quillian McGlynn</u> |
| <b>Finish:</b> | STD Lot # <u>060115B9P11</u> | Date Out Oven: <u>06/05/2015</u> | Temp: <u>103.3 degree C</u> | Analyst: <u>Quillian McGlynn</u> |

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29170   | BLANK-68       | AS11365B      | L      | ☑    | 14:59        | 10:35         | WRQ        | 1000             | 0.1131         | 0.1131       | 0                 |                    |       |      |          |
| 29171   | LCS-68         | AS11365L      | L      | ☑    | 14:59        | 10:35         | WRR        | 250              | 0.1128         | 0.1379       | 100               | 100                | 100   |      |          |
| 29167   | 15060034-01    | AS11365       | L      | ☑    | 14:59        | 10:35         | WRS        | 1060             | 0.1135         | 0.1138       | 0.283             |                    |       |      |          |
| 29172   | 15060034-01DUP | AS11365D      | L      | ☑    | 14:59        | 10:35         | WRT        | 1060             | 0.1112         | 0.1116       | 0.377             |                    |       | 28.6 |          |
| 29168   | 15060034-04    | AS11368       | L      | ☑    | 14:59        | 10:35         | WRU        | 1040             | 0.1127         | 0.1128       | 0.096             |                    |       |      |          |
| 29169   | 15060034-05    | AS11369       | L      | ☑    | 14:59        | 10:35         | WRV        | 1040             | 0.1140         | 0.1167       | 2.6               |                    |       |      |          |
| 29173   | 15060107-02    | AS11828       | L      | ☑    | 14:59        | 10:35         | WRW        | 1060             | 0.1136         | 0.1238       | 9.62              |                    |       |      |          |
| 29174   | 15060107-03    | AS11829       | L      | ☑    | 14:59        | 10:35         | WS6        | 1020             | 0.1136         | 0.1166       | 2.94              |                    |       |      |          |
| 29175   | 15060107-04    | AS11830       | L      | ☑    | 14:59        | 10:35         | WS5        | 960              | 0.1124         | 0.1140       | 1.67              |                    |       |      |          |
| 29176   | 15060107-05    | AS11831       | L      | ☑    | 14:59        | 10:35         | WQT        | 980              | 0.1117         | 0.1137       | 2.04              |                    |       |      |          |
| 29177   | 15060107-06    | AS11832       | L      | ☑    | 14:59        | 10:35         | WQU        | 1000             | 0.1124         | 0.1160       | 3.6               |                    |       |      |          |
| 29178   | 15060107-07    | AS11833       | L      | ☑    | 14:59        | 10:35         | WQV        | 1000             | 0.1123         | 0.1195       | 7.2               |                    |       |      |          |
| 29179   | 15060109-01    | AS11837       | L      | ☑    | 14:59        | 10:35         | WQW        | 780              | 0.1113         | 0.1262       | 19.1              |                    |       |      |          |
| 29180   | 15060109-02    | AS11838       | L      | ☑    | 14:59        | 10:35         | WQX        | 560              | 0.1253         | 0.1495       | 43.2              |                    |       |      |          |
| 29181   | 15060109-02DUP | AS11838D      | L      | ☑    | 14:59        | 10:35         | WQY        | 500              | 0.1179         | 0.1435       | 51.2              |                    |       | 16.9 |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/8/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/03/2015 12:04 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-STWA-T150603120444 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-02 (AS11828)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 9.62          | 0.943 | 0.94            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150603081831 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-03 (AS11829)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.94          | 0.980 | 0.98            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150603081924 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-04 (AS11830)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.67          | 1.04 | 1.04            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-187.70-T150603082254 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-05 (AS11831)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.04          | 1.02 | 1.02            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/03/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-189.10-T150603082057 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060107-06 (AS11832)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 3.60          | 1.00 | 1.00            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/03/2015     |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER            |
| <b>Client Sample ID:</b> NRS-BDUP-T150603081852 | <b>Received Date:</b> 06/04/2015 12:40 |
| <b>Lab Sample ID:</b> 15060107-07 (AS11833)     | <b>Percent Solid:</b> N/A              |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 7.20          | 1.00 | 1.00            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 03, 2015

**Lab Report ID:** 15060107

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

Congener PCB (1L CSGB 410 - 508 Extracts)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 23, 2015

## CASE NARRATIVE

This data package (SDG ID: 15060107) consists of 7 water samples received on 06/04/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS11827              | FRS-FDBL-T150603120634   | 06/03/2015 11:58       |
| AS11828              | FRS-STWA-T150603120444   | 06/03/2015 12:04       |
| AS11829              | NRS-162.90-T150603081831 | 06/03/2015 06:00       |
| AS11830              | NRS-186.00-T150603081924 | 06/03/2015 06:00       |
| AS11831              | NRS-187.70-T150603082254 | 06/03/2015 06:00       |
| AS11832              | NRS-189.10-T150603082057 | 06/03/2015 06:00       |
| AS11833              | NRS-BDUP-T150603081852   | 06/03/2015             |

### Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/04/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

### Total PCBs by Green Bay Method (1L)

Analysis for Total PCBs was performed by PACE SOP NE294\_02. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. The following technical and administrative items were noted for the analysis:

(1.) Peak 17, Peak 2, Peak 38, Peak 42, Peak 46, Peak 49, Peak 51, Peak 52, Peak 57, Peak 58, Peak 59, Peak 64, Peak 7, and Peak 8 were observed in the Method Blank sample. All associated positive sample concentration results have been flagged (B) to denote the observed contamination.

(2.) NOTE: mGBM DB-1 Peak 5 (IUPAC 4 and 10 PCB Congeners) Quantification by Secondary GC column analysis: IUPAC Congeners 4 and 10 co-elute on the primary ZB-1or DB-1 GC columns used for this analysis methodology as assigned GC Peak # 5. Individual quantitation of PCB Congeners IUPAC 4 and IUPAC 10 is provided by SOP NE293 as a secondary GC Column analysis using a CP-Sil5/C18 column. The concentration results for IUPAC 4 and IUPAC 10 are merged with the mGBM primary ZB/DB-1 GC column analysis and provided on the final PCB Congener Reports and Electronic Data Deliverables. IUPAC 4 and IUPAC 10 concentrations are designated on the PCB Congener Reports and EDDs as peaks 5-4 and 5-10. The original DB/ZB-1 Peak 5 response is not included in the summed total PCB concentrations to avoid double counting of these congeners.

(3.) Samples (LAB ID: AS11827) and quality control sample (LAB ID: AS11828B) were re-analyzed due to autosampler injection error. The results for the re-analysis are provided with RR1 suffix.

(4.) The associated laboratory control spike sample (LAB ID: AS11828L) was re-analyzed due to autosampler injection error. The sample was re-analyzed a second time due an internal standard failure. The results for the re-analysis are provided with a RR2 sample suffix ID.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



385 West Grand Avenue, Montvale, NJ 07645 PH: 201-930-9899

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150603153100PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD    | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|-----------|----|-----|----|------------------------|--------------|
|                   |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
| 001               | FRS-FDBL-T150603120634   | FDBL  | W         | 06/03/2015     | 11:58          | W      | 1            |                        |           |    |     |    |                        |              |
| A511827           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
| 002               | FRS-STWA-T150603120444   | ENV   | W         | 06/03/2015     | 12:04          | W      | 3            | Aroclor Water          | NE273_04  | N  | N   | N  | 168                    | 4degC        |
| A511828           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 168                    | 4degC        |
|                   |                          |       |           |                |                |        |              | CS PCB extract         | NE294_02A | N  | N   | N  | 480                    | 4degC        |
| 003               | NRS-162.90-T150603081831 | ENV   | W         | 06/03/2015     | 06:00          | W      | 2            | Aroclor Water          | NE273_04  | N  | N   | N  | 168                    | 4degC        |
| A511829           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
| 004               | NRS-186.00-T150603081924 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| A511830           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
| 005               | NRS-187.70-T150603082254 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| A511831           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
| 006               | NRS-189.10-T150603082057 | ENV   | W         | 06/03/2015     | 06:00          | W      | 3            | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| A511832           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
| 007               | NRS-BDUP-T150603081852   | DUP   | W         | 06/03/2015     |                | W      | 2            | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |
| A511833           |                          |       |           |                |                |        |              |                        |           |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D  | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04  | N  | N   | N  | 72                     | 4degC        |

Comments: Temp: 20 (PR), 310, 2.7 COC sealed (Y)

| Relinquished by:              | Received by:                  | Relinquished by:              | Received by:                  | Relinquished by:              | Received by:                  |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Signature: <i>[Signature]</i> |
| Print Name: <i>Shan Suri</i>  | Print Name: <i>MR</i>         | Print Name: <i>MR</i>         | Print Name: <i>Anto Mar</i>   | Print Name:                   | Print Name:                   |
| Company: <i>AA</i>            | Company: <i>PACE</i>          | Company: <i>PACE</i>          | Company: <i>PACE</i>          | Company:                      | Company:                      |
| Date/Time: <i>6/4/15 1045</i> | Date/Time: <i>6-4-15 1200</i> | Date/Time: <i>6-4-15 1200</i> | Date/Time: <i>6/4/15 1240</i> | Date/Time:                    | Date/Time:                    |

Date Printed: 6/3/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER \*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



**Sample Condition Upon Receipt**



CLIENT NAME: GE  
 PROJECT: HR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # MA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None   
 THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 2.0, 2.0, 2.7  
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |
|--|---|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>72hr</u>                          |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |
| - Includes date/time/ID/Analysis   |   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| - Exceptions that are not checked: VOA   |   |  |   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Pace Trip Blank Lot #: <u>MA</u>   |   |  |   |
|  |   | Initial when completed: <u>MA</u>      | Lot # of added preservative: <u>MA</u>  |

Sample Receipt form filled in: ATM 6/4/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS):  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

ATM 6/4/15  
ATM 6/4/15  
ATM 6/4/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060107

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRP:** 15060107  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRP TAT:** 14 DAYS

**RECEIVED DATE:** 06/04/2015 12:40  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 3  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0 (IR), 3.0, 2.7 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION                         | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|--|------------|
| FRS-FDBL-T150603120634 (AS11827)   | 7 DAYS 06-11-15           | 06/03/2015 11:58  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
|                                    | 14 DAYS 06-18-15          | 06/03/2015 11:58  | Water  | SOP NE294_02       | Congener PCB (1L CSGB 410 - 508 Extract) |            |
| FRS-STWA-T150603120444 (AS11828)   | 7 DAYS 06-11-15           | 06/03/2015 12:04  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | 7 DAYS 06-11-15           | 06/03/2015 12:04  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
|                                    | 14 DAYS 06-18-15          | 06/03/2015 12:04  | Water  | SOP NE294_02       | Congener PCB (1L CSGB 410 - 508 Extract) |            |
| NRS-162.90-T150603081831 (AS11829) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-186.00-T150603081924 (AS11830) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-187.70-T150603082254 (AS11831) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-189.10-T150603082057 (AS11832) | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |
| NRS-BDUP-T150603081852 (AS11833)   | *72 HOUR* 06-07-15        | 06/03/2015        | Water  | SM 2540 D-97,-11   | Total Suspended Solids                   |            |
|                                    | *72 HOUR* 06-07-15        | 06/03/2015        | Water  | SOP NE273 Rev. 4.0 | PCB Analysis                             |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

SOP NE294\_02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- DCBP
- Peak 10
- Peak 100
- Peak 101
- Peak 102
- Peak 103
- Peak 104
- Peak 105
- Peak 106
- Peak 107
- Peak 108
- Peak 109
- Peak 11
- Peak 110

SOP NE294\_02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n

- Peak 111
- Peak 112
- Peak 113
- Peak 114
- Peak 115
- Peak 116
- Peak 117
- Peak 118
- Peak 12
- Peak 13
- Peak 14
- Peak 15
- Peak 16
- Peak 17



# SAMPLE RECEIPT REPORT

## 15060107

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

Continued...

SOP NE294 02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n)

SOP NE294 02 - Congener PCB (1L CSGB 410 - 508 Extracts) - (n)

- Peak 19
- Peak 2
- Peak 20
- Peak 21
- Peak 22
- Peak 23
- Peak 24
- Peak 25
- Peak 26
- Peak 27
- Peak 28
- Peak 29
- Peak 3
- Peak 30
- Peak 31
- Peak 32
- Peak 33
- Peak 34
- Peak 35
- Peak 36
- Peak 37
- Peak 38
- Peak 39
- Peak 4
- Peak 41
- Peak 42
- Peak 43
- Peak 44
- Peak 45
- Peak 46
- Peak 47
- Peak 48
- Peak 49
- Peak 5 (10)
- Peak 5 (4)
- Peak 50
- Peak 51
- Peak 52
- Peak 53
- Peak 54
- Peak 55
- Peak 56
- Peak 57
- Peak 58
- Peak 59
- Peak 6
- Peak 60
- Peak 61
- Peak 62
- Peak 63
- Peak 64
- Peak 65
- Peak 66
- Peak 67
- Peak 68
- Peak 69
- Peak 7
- Peak 70
- Peak 71
- Peak 72
- Peak 73
- Peak 74

- Peak 75
- Peak 76
- Peak 77
- Peak 78
- Peak 79
- Peak 8
- Peak 80
- Peak 82
- Peak 83
- Peak 84
- Peak 85
- Peak 87
- Peak 88
- Peak 89
- Peak 9
- Peak 90
- Peak 91
- Peak 92
- Peak 93
- Peak 94
- Peak 95
- Peak 96
- Peak 98
- Peak 99
- TCMX
- Total PCB

# INTERNAL SAMPLE TRACKING RECORD

CONGENER EXTRACTION LOG



Prep Date: 06/04/15

Batch ID: 31013 Method: EPA 3535A

Initial for required Clean Up Steps

|   | Prep ID | LAB Sample ID | Alt Sample ID | Extraction Type | Matrix | Sample Amount (g or mL) | TS % | Final Ext. Vol (mL) | Date Ext (MM/DD) | Extract Time On | Extract Time Off | Date Conc (MM/DD) | Date Acid Cleaned (MM/DD) | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) | Cell / Unit # | Job     | pH | Comments |
|---|---------|---------------|---------------|-----------------|--------|-------------------------|------|---------------------|------------------|-----------------|------------------|-------------------|---------------------------|--------------------------|-----------------------------|-----------------------|---------------|---------|----|----------|
| 1 | 308413  | CEBLK-50      | AS11828B      | SPE-1L          | Water  | 1000                    | N/A  | 5                   | 06/04            | NA              | NA               | 06/04             | 06/04                     | NA                       | 06/04                       | 06/04                 | L1            | E CON1L | 5  | AS11838B |
| 2 | 308414  | LCS-50        | AS11828L      | SPE-1L          | Water  | 1000                    | N/A  | 5                   | 06/04            | NA              | NA               | 06/04             | 06/04                     | NA                       | 06/04                       | 06/04                 | L2            | E CON1L | 5  | AS11838L |
| 3 | 308412  | 15060107-02   | AS11828       | SPE-1L          | Water  | 1040                    | N/A  | 5                   | 06/04            | NA              | NA               | 06/05             | 06/05                     | NA                       | 06/05                       | 06/05                 | L7            | E CON1L | 5  |          |
| 4 | 308655  | 15060107-01   | AS11827       | SPE-1L          | Water  | 1040                    | N/A  | 5                   | 06/04            | NA              | NA               | 06/05             | 06/05                     | NA                       | 06/05                       | 06/05                 | L6            | E CON1L | 5  |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                    | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|---|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                       | 142425              | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB                 | 0214158082A         | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE     | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB      | 5030267             | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                         | DM309               | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>A1242 @ 0.5 PPM SPIKE IN ACETONE</u> | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                                | 0000081766          | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules CURRENT                 | 410121-AZ           | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar)                         | DM609               | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                          | DM576               | 0           |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkiripaul*

Elizabeth Ramkiripaul

# CONGENER SCREEN SHEET

**LRF: 15060107**

**Batch ID: 31013**

| Lab Sample ID | File ID    | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11828BRR2   | GC30-457-5 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828LRR3   | GC30-457-6 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828RR1    | GC30-457-7 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11827RR2    | GC30-458-5 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

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**COMMENTS:** \_\_\_\_\_

# CONGENER SCREEN SHEET

**LRF: 15060107**

**Batch ID: 31013**

| Lab Sample ID | File ID     | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|-------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11828BRR1   | GC24-1177-8 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828LRR2   | GC24-1179-5 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828       | GC24-1177-6 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11827RR1    | GC24-1178-6 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

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**COMMENTS:** \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Init. Calib. Date(s): 05/20/2015,05/21/2015

GC Column: Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm

Instrument ID : GC30

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

|    | CLIENT<br>SAMPLE ID    | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|----|------------------------|------------------|----------------|-------------------------|
| 01 | IUPAC 4-10 0.100 ng/mL | ICBZ0520A        | GC30-453-6     | 05/20/2015 23:52:11     |
| 02 | IUPAC 4-10 0.500 ng/mL | ICBZ0520B        | GC30-453-7     | 05/21/2015 00:39:28     |
| 03 | IUPAC 4-10 5.0 ng/mL   | ICBZ0520C        | GC30-453-8     | 05/21/2015 01:26:42     |
| 04 | IUPAC 4-10 25.0 ng/mL  | ICBZ0520D        | GC30-453-9     | 05/21/2015 02:13:57     |
| 05 | IUPAC 4-10 50.0 ng/mL  | ICBZ0520E        | GC30-453-10    | 05/21/2015 03:01:06     |
| 06 | HEXANE BLANK           | 150610B03        | GC30-457-3     | 06/10/2015 16:35:47     |
| 07 | CCCS Std 25.0 ng/mL    | CCCS0610AA       | GC30-457-4     | 06/10/2015 17:23:18     |
| 08 | METHOD BLANK           | AS11828BRR2      | GC30-457-5     | 06/10/2015 18:10:54     |
| 09 | LAB CONTROL SPIKE      | AS11828LRR3      | GC30-457-6     | 06/10/2015 18:58:25     |
| 10 | FRS-STWA-T150603120444 | AS11828RR1       | GC30-457-7     | 06/10/2015 19:46:00     |
| 11 | CCCS Std 25.0 ng/mL    | CCCS0610AB       | GC30-457-8     | 06/10/2015 20:33:30     |
| 12 | HEXANE BLANK           | 150611B03        | GC30-458-3     | 06/11/2015 17:12:46     |
| 13 | CCCS Std 25.0 ng/mL    | CCCS0611AA       | GC30-458-4     | 06/11/2015 18:00:15     |
| 14 | FRS-FDBL-T150603120634 | AS11827RR2       | GC30-458-5     | 06/11/2015 18:47:48     |
| 15 | CCCS Std 25.0 ng/mL    | CCCS0611AB       | GC30-458-6     | 06/11/2015 19:35:13     |

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**PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY**

Lab Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Init. Calib. Date(s): 01/20/2015,01/21/2015,06/04/2015

GC Column (1): Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm

Instrument ID: GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RT FROM INITIAL CALIBRATION SURROGATE STANDARDS: |                           |             |                    |                     |                                    |  |  |
|--|---------------------------|-------------|--------------------|---------------------|------------------------------------|--|--|
| IUPAC 207: <u>40.28</u>                                    |                           |             |                    |                     |                                    |  |  |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE/TIME ANALYZED | IUPAC 207 RT #      | RT DIFFERENCE (LIMIT +/- 0.07 MIN) | SURROGATE % RECOVERY (Limits 60.0-140) |  |
| 01   | ICAL 6.25 ng/mL           | ICAL0120A   | GC24-1173-10       | 01/20/2015 15:59:42 |                                    |  |  |
| 02   | ICAL 12.5 ng/mL           | ICAL0120B   | GC24-1173-11       | 01/20/2015 17:05:30 |                                    |  |  |
| 03   | ICAL 125 ng/mL            | ICAL0120C   | GC24-1173-12       | 01/20/2015 18:11:16 |                                    |  |  |
| 04   | ICAL 314 ng/mL            | ICAL0120D   | GC24-1173-13       | 01/20/2015 19:16:50 |                                    |  |  |
| 05   | ICAL 627 ng/mL            | ICAL0120E   | GC24-1173-14       | 01/20/2015 20:22:37 |                                    |  |  |
| 06   | ICAL 1254 ng/mL           | ICAL0120F   | GC24-1173-15       | 01/20/2015 21:28:26 |                                    |  |  |
| 07   | SUP CONG STD 200/5 ng/ml  | SC0120A     | GC24-1173-17       | 01/20/2015 23:40:14 |                                    |  |  |
| 08   | Surr Std (207) 2.0 ng/mL  | SS0120A     | GC24-1173-19       | 01/21/2015 01:51:45 |                                    |  |  |
| 09   | Surr Std (207) 20.0 ng/mL | SS0120B     | GC24-1173-20       | 01/21/2015 02:57:30 |                                    |  |  |
| 10   | Surr TCMX/DCBP 5/50 ppb   | TD0604A     | GC24-1173-24       | 06/04/2015 16:04:54 |                                    |  |  |
| 11   | HEXANE BLANK              | 150610B02   | GC24-1177-2        | 06/10/2015 16:04:12 |                                    |  |  |
| 12   | CCC Std 122 ng/mL         | CCCS0610A   | GC24-1177-3        | 06/10/2015 17:09:59 |                                    |  |  |
| 13   | FRS-STWA-T150603120444    | AS11828     | GC24-1177-6        | 06/10/2015 20:27:14 | *                                  | -40.28                                 |  |
| 14   | CCC Std 122 ng/mL         | CCCS0610B   | GC24-1177-7        | 06/10/2015 22:17:24 |                                    |  |  |
| 15   | CEBLK-50(METHOD BLANK)    | AS11828BRR1 | GC24-1177-8        | 06/10/2015 23:23:06 | *                                  | -40.28                                 |  |
| 16   | CCC Std 122 ng/mL         | CCCS0610C   | GC24-1177-9        | 06/11/2015 00:28:48 |                                    |  |  |
| 17   | HEXANE BLANK              | 150611B02   | GC24-1178-2        | 06/11/2015 16:44:01 |                                    |  |  |
| 18   | CCC Std 122 ng/mL         | CCCS0611B   | GC24-1178-5        | 06/11/2015 20:01:03 |                                    |  |  |
| 19   | FRS-FDBL-T150603120634    | AS11827RR1  | GC24-1178-6        | 06/11/2015 21:16:01 | *                                  | -40.28                                 |  |
| 20   | CCC Std 122 ng/mL         | CCCS0611C   | GC24-1178-7        | 06/11/2015 22:21:36 |                                    |  |  |
| 21   | HEXANE BLANK              | 150612B02   | GC24-1179-2        | 06/12/2015 17:58:40 |                                    |  |  |
| 22   | CCC Std 122 ng/mL         | CCCS0612A   | GC24-1179-3        | 06/12/2015 19:04:27 |                                    |  |  |
| 23   | LCS-50(LAB CONTROL SPIKE) | AS11828LRR2 | GC24-1179-5        | 06/12/2015 22:57:40 | *                                  | -40.28                                 |  |
| 24   | CCC Std 122 ng/mL         | CCCS0612B   | GC24-1179-6        | 06/13/2015 00:03:23 |                                    |  |  |

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## PCB ANALYTICAL SEQUENCE

Lab Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Init. Calib. Date(s): 05/20/2015,05/21/2015

GC Column (1): Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm

Instrument ID: GC30

THE ANALYTICAL SEQUENCE OF SAMPLES, BLANKS, AND STANDARDS IS GIVEN BELOW:

|    | CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE/TIME<br>ANALYZED |
|----|---------------------------|------------------|----------------|-----------------------|
| 01 | IUPAC 4-10 0.100 ng/mL    | ICBZ0520A        | GC30-453-6     | 05/20/2015 23:52:11   |
| 02 | IUPAC 4-10 0.500 ng/mL    | ICBZ0520B        | GC30-453-7     | 05/21/2015 00:39:28   |
| 03 | IUPAC 4-10 5.0 ng/mL      | ICBZ0520C        | GC30-453-8     | 05/21/2015 01:26:42   |
| 04 | IUPAC 4-10 25.0 ng/mL     | ICBZ0520D        | GC30-453-9     | 05/21/2015 02:13:57   |
| 05 | IUPAC 4-10 50.0 ng/mL     | ICBZ0520E        | GC30-453-10    | 05/21/2015 03:01:06   |
| 06 | HEXANE BLANK              | 150610B03        | GC30-457-3     | 06/10/2015 16:35:47   |
| 07 | CCCS Std 25.0 ng/mL       | CCCS0610AA       | GC30-457-4     | 06/10/2015 17:23:18   |
| 08 | CEBLK-50(METHOD BLANK)    | AS11828BRR2      | GC30-457-5     | 06/10/2015 18:10:54   |
| 09 | LCS-50(LAB CONTROL SPIKE) | AS11828LRR3      | GC30-457-6     | 06/10/2015 18:58:25   |
| 10 | FRS-STWA-T150603120444    | AS11828RR1       | GC30-457-7     | 06/10/2015 19:46:00   |
| 11 | CCCS Std 25.0 ng/mL       | CCCS0610AB       | GC30-457-8     | 06/10/2015 20:33:30   |
| 12 | HEXANE BLANK              | 150611B03        | GC30-458-3     | 06/11/2015 17:12:46   |
| 13 | CCCS Std 25.0 ng/mL       | CCCS0611AA       | GC30-458-4     | 06/11/2015 18:00:15   |
| 14 | FRS-FDBL-T150603120634    | AS11827RR2       | GC30-458-5     | 06/11/2015 18:47:48   |
| 15 | CCCS Std 25.0 ng/mL       | CCCS0611AB       | GC30-458-6     | 06/11/2015 19:35:13   |

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## PCB ANALYTICAL SEQUENCE/SURROGATE RECOVERY

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060107

ELAP ID No: 11078

Init. Calib. Date(s): 01/20/2015,01/21/2015,06/04/2015

GC Column: Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm

Instrument ID : GC24

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

|                                       |                       |
|---------------------------------------|-----------------------|
| SURROGATE RT FROM INITIAL CALIBRATION |                       |
| TCMX RT: <u>13.62</u>                 | DCBP RT: <u>53.47</u> |

| #  | CLIENT SAMPLE ID          | LAB SAMPLE ID | LAB FILE ID  | DATE / TIME ANALYZED | TCMX RT | # | TCMX % REC | DCBP RT | # | DCBP % REC |
|----|---------------------------|---------------|--------------|----------------------|---------|---|------------|---------|---|------------|
| 01 | ICAL 6.25 ng/mL           | ICAL0120A     | GC24-1173-10 | 01/20/2015 15:59:42  |         |   |            |         |   |            |
| 02 | ICAL 12.5 ng/mL           | ICAL0120B     | GC24-1173-11 | 01/20/2015 17:05:30  |         |   |            |         |   |            |
| 03 | ICAL 125 ng/mL            | ICAL0120C     | GC24-1173-12 | 01/20/2015 18:11:16  |         |   |            |         |   |            |
| 04 | ICAL 314 ng/mL            | ICAL0120D     | GC24-1173-13 | 01/20/2015 19:16:50  |         |   |            |         |   |            |
| 05 | ICAL 627 ng/mL            | ICAL0120E     | GC24-1173-14 | 01/20/2015 20:22:37  |         |   |            |         |   |            |
| 06 | ICAL 1254 ng/mL           | ICAL0120F     | GC24-1173-15 | 01/20/2015 21:28:26  |         |   |            |         |   |            |
| 07 | SUP CONG STD 200/5 ng/ml  | SC0120A       | GC24-1173-17 | 01/20/2015 23:40:14  |         |   |            |         |   |            |
| 08 | Surr Std (207) 2.0 ng/mL  | SS0120A       | GC24-1173-19 | 01/21/2015 01:51:45  |         |   |            |         |   |            |
| 09 | Surr Std (207) 20.0 ng/mL | SS0120B       | GC24-1173-20 | 01/21/2015 02:57:30  |         |   |            |         |   |            |
| 10 | Surr TCMX/DCBP 5/50 ppb   | TD0604A       | GC24-1173-24 | 06/04/2015 16:04:54  |         |   |            |         |   |            |
| 11 | HEXANE BLANK              | 150610B02     | GC24-1177-2  | 06/10/2015 16:04:12  |         |   |            |         |   |            |
| 12 | CCC Std 122 ng/mL         | CCCS0610A     | GC24-1177-3  | 06/10/2015 17:09:59  |         |   |            |         |   |            |
| 13 | FRS-STWA-T150603120444    | AS11828       | GC24-1177-6  | 06/10/2015 20:27:14  | 13.62   |   | 78.1       | 53.44   |   | 81.5       |
| 14 | CCC Std 122 ng/mL         | CCCS0610B     | GC24-1177-7  | 06/10/2015 22:17:24  |         |   |            |         |   |            |
| 15 | METHOD BLANK              | AS11828BRR1   | GC24-1177-8  | 06/10/2015 23:23:06  | 13.62   |   | 78.5       | 53.46   |   | 86.8       |
| 16 | CCC Std 122 ng/mL         | CCCS0610C     | GC24-1177-9  | 06/11/2015 00:28:48  |         |   |            |         |   |            |
| 17 | HEXANE BLANK              | 150611B02     | GC24-1178-2  | 06/11/2015 16:44:01  |         |   |            |         |   |            |
| 18 | CCC Std 122 ng/mL         | CCCS0611B     | GC24-1178-5  | 06/11/2015 20:01:03  |         |   |            |         |   |            |
| 19 | FRS-FDBL-T150603120634    | AS11827RR1    | GC24-1178-6  | 06/11/2015 21:16:01  | 13.62   |   | 72.4       | 53.46   |   | 81.8       |
| 20 | CCC Std 122 ng/mL         | CCCS0611C     | GC24-1178-7  | 06/11/2015 22:21:36  |         |   |            |         |   |            |
| 21 | HEXANE BLANK              | 150612B02     | GC24-1179-2  | 06/12/2015 17:58:40  |         |   |            |         |   |            |
| 22 | CCC Std 122 ng/mL         | CCCS0612A     | GC24-1179-3  | 06/12/2015 19:04:27  |         |   |            |         |   |            |
| 23 | LAB CONTROL SPIKE         | AS11828LRR2   | GC24-1179-5  | 06/12/2015 22:57:40  | 13.62   |   | 75.9       | 53.47   |   | 86.9       |
| 24 | CCC Std 122 ng/mL         | CCCS0612B     | GC24-1179-6  | 06/13/2015 00:03:23  |         |   |            |         |   |            |

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Sample Name: AS11827RR1 Sample Amount: 1.040 L  
Sample ID: FRS-FDBL-T150603120634 Dilution: 5  
Date Acquired: 06/11/2015 21:16:01 Extract Volume: 5 mL  
Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 10:02:03  
Sample Set Name: GC24\_061115a User Name: Amie Hamilton  
Processing Method: CSGB\_LL1X\_012015 Current Time: 16:24:33  
Run Time: 60 Minutes Current Date: 6/17/2015  
Report Name: CSGB\_Surrogate(Lims Generated) LIMS File ID: GC24-1178-6

Peak Results

|   | Component Name | Ret. Time (min) | Area (uV*sec) | Solution Conc. (ng/mL) | Surrogate % Recovery |
|---|----------------|-----------------|---------------|------------------------|----------------------|
| 1 | DCBP           | 53.46           | 141766        | 40.897                 | 81.8                 |
| 2 | TCMX           | 13.62           | 12778         | 3.619                  | 72.4                 |
| 3 | I.S. (OCN)     | 46.00           | 75542         | 3.781                  |                      |



Sample Name: AS11828 Sample Amount: 1.040 L  
Sample ID: FRS-STWA-T150603120444 Dilution: 5  
Date Acquired: 06/10/2015 20:27:14 Extract Volume: 5 mL  
Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 10:05:04  
Sample Set Name: GC24\_061015a User Name: Amie Hamilton  
Processing Method: CSGB\_TD\_S\_060415 Current Time: 16:24:33  
Run Time: 60 Minutes Current Date: 6/17/2015  
Report Name: CSGB\_Surrogate(Lims Generated) LIMS File ID: GC24-1177-6

**Peak Results**

|   | Component Name | Ret. Time (min) | Area (uV*sec) | Solution Conc. (ng/mL) | Surrogate % Recovery |
|---|----------------|-----------------|---------------|------------------------|----------------------|
| 1 | DCBP           | 53.44           | 114806        | 40.728                 | 81.5                 |
| 2 | TCMX           | 13.62           | 11206         | 3.903                  | 78.1                 |
| 3 | I.S. (OCN)     | 45.99           | 61428         | 3.781                  |                      |



Sample Name: AS11828BRR1 Sample Amount: 1.000 L  
Sample ID: METHOD BLANK Dilution: 5  
Date Acquired: 06/10/2015 23:23:06 Extract Volume: 5 mL  
Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 10:02:38  
Sample Set Name: GC24\_061015d User Name: Amie Hamilton  
Processing Method: CSGB\_LL1X\_012015 Current Time: 16:24:33  
Run Time: 60 Minutes Current Date: 6/17/2015  
Report Name: CSGB\_Surrogate(Lims Generated) LIMS File ID: GC24-1177-8

**Peak Results**

|   | Component Name | Ret. Time (min) | Area (uV*sec) | Solution Conc. (ng/mL) | Surrogate % Recovery |
|---|----------------|-----------------|---------------|------------------------|----------------------|
| 1 | DCBP           | 53.46           | 145146        | 43.422                 | 86.8                 |
| 2 | TCMX           | 13.62           | 13366         | 3.925                  | 78.5                 |
| 3 | I.S. (OCN)     | 45.98           | 72844         | 3.636                  |                      |



Sample Name: AS11828LRR2 Sample Amount: 1.000 L  
Sample ID: LAB CONTROL SPIKE Dilution: 5  
Date Acquired: 06/12/2015 22:57:40 Extract Volume: 5 mL  
Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 10:17:38  
Sample Set Name: GC24\_061215b User Name: Amie Hamilton  
Processing Method: CSGB\_TD\_S\_060415 Current Time: 16:24:33  
Run Time: 60 Minutes Current Date: 6/17/2015  
Report Name: CSGB\_Surrogate(Lims Generated) LIMS File ID: GC24-1179-5

**Peak Results**

|   | Component Name | Ret. Time (min) | Area (uV*sec) | Solution Conc. (ng/mL) | Surrogate % Recovery |
|---|----------------|-----------------|---------------|------------------------|----------------------|
| 1 | DCBP           | 53.47           | 145293        | 43.455                 | 86.9                 |
| 2 | TCMX           | 13.62           | 12925         | 3.795                  | 75.9                 |
| 3 | I.S. (OCN)     | 46.00           | 72862         | 3.636                  |                      |

# LABORATORY CONTROL SPIKE SUMMARY

## PCB LABORATORY CONTROL SPIKE (LCS) SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 15060107

LCS ID: LCS-50RR2

Blank Sample ID: CEBLK-50RR1

LCS File ID: GC24-1179-5

Method Blank File ID: GC24-1177-8

LCS Inj Date: 06/12/2015 22:57:40

Method Blank Inj Date: 06/10/2015 23:23:06

LCS Lab ID No: AS11828LRR2

Method Blank Lab ID No: AS11828BRR1

| ANALYTE    | SPIKE<br>ADDED<br>(ng/L) | LCS<br>CONCENTRATION<br>(ng/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS<br>PERCENT<br>RECOVERY |
|------------|--------------------------|--------------------------------|------------------------------|----------------------------------|
| Total PCBs | 250                      | 266                            | 106                          | 60.0-140                         |

# Column to be used to flag recovery values.

\* Value outside of QC limits.

Comments: \_\_\_\_\_  
\_\_\_\_\_

# METHOD BLANK SUMMARY

**PCB METHOD BLANK SUMMARY**

|                           |  |                     |                               |
|---------------------------|--|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>          | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>                                   | LRF ID:             | <u>CEBLK-50RR1</u>            |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                      | Client ID:          | <u>CEBLK-50(METHOD BLANK)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                 | Lab Sample ID:      | <u>AS11828BRR1</u>            |
| % Moisture:               | <u>100</u>                                     | Lab File ID:        | <u>GC24-1177-8</u>            |
| Extraction:               | <u>1L - Solid Phase Extraction</u>             | Date Received:      | <u></u>                       |
| Conc. Extract Volume:     | <u>5000 uL</u>                                 | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>0.5 uL</u>                                  | Date/Time Analyzed: | <u>06/10/2015 23:23</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                            | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                        | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm</u> |                     |                               |

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

### PCB METHOD BLANK SUMMARY

|                           |   |                     |                               |
|---------------------------|---|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>               | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>  | LRF ID:             | <u>CEBLK-50RR2</u>            |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                           | Client ID:          | <u>CEBLK-50(METHOD BLANK)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                      | Lab Sample ID:      | <u>AS11828BRR2</u>            |
| % Moisture:               | <u>100</u>  | Lab File ID:        | <u>GC30-457-5</u>             |
| Extraction:               | <u>1L - Solid Phase Extraction</u>                  | Date Received:      | <u></u>                       |
| Conc. Extract Volume:     | <u>5000 uL</u>                                      | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>1.0 uL</u>                                       | Date/Time Analyzed: | <u>06/10/2015 18:10</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                                 | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                             | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm</u> |                     |                               |

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

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# SAMPLE ANALYSIS DATA

### PCB SAMPLE ANALYSIS DATA SHEET

|                           |  |                     |                               |
|---------------------------|--|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>          | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>                                   | LRF ID:             | <u>15060107-01RR1</u>         |
| Matrix:                   | <u>Water</u>                                   | Client ID:          | <u>FRS-FDBL-T150603120634</u> |
| Sample Wt(Dry)/Vol:       | <u>1040 mL</u>                                 | Lab Sample ID:      | <u>AS11827RR1</u>             |
| % Moisture:               | <u>100</u>                                     | Lab File ID:        | <u>GC24-1178-6</u>            |
| Extraction:               | <u>1L - Solid Phase Extraction</u>             | Date Received:      | <u>06/04/2015</u>             |
| Conc. Extract Volume:     | <u>5000 uL</u>                                 | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>0.5 uL</u>                                  | Date/Time Analyzed: | <u>06/11/2015 21:16</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                            | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                        | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm</u> |                     |                               |

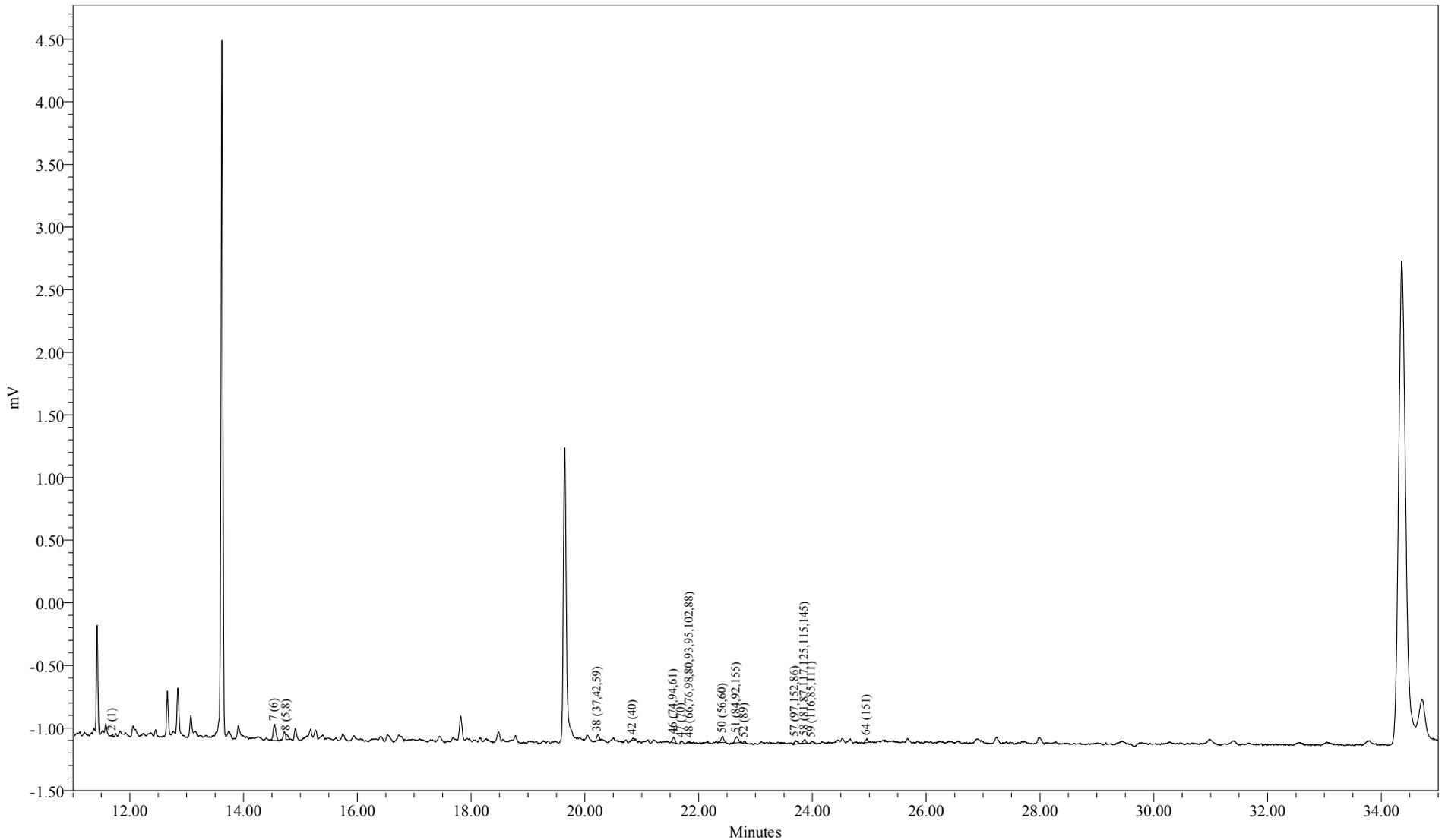
OCN (I.S.) Peak Area: 75542

Percent Recovery (50 - 150 %): 131

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11827RR1  
 Sample ID: FRS-FDBL-T150603120634  
 Date Acquired: 6/11/2015 9:16:01 PM EDT

Sample Amount (L) : 1.0400  
 Dilution: 5  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1178-6 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-FDBL-T150603120634  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 21:16:01  
 Lab Sample ID: AS11827RR1  
 LRF ID: 15060107-01RR1  
 Lab File ID: GC24-1178-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <8.04 ng/L U

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 14.00    | 17.82  |
| Di       | 51.87    | 55.84  |
| Tri      | 4.07     | 3.59   |
| Tetra    | 7.11     | 6.03   |
| Penta    | 20.75    | 15.27  |
| Hexa     | 2.20     | 1.46   |
| Hepta    | 0.00     | 0.00   |
| Octa     | 0.00     | 0.00   |
| Nona     | 0.00     | 0.00   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>ng/L | Percent<br>Sediment | Percent<br>Biota |
|----------|------------------------------------|----------------|---------------------|------------------|
| A1221    | 2/001                              | 0.7715         | 100                 | 100              |
| A1242    | 23+24/31+28                        |                | 0.00                | 0.00             |
| A1254SED | 61/100                             |                | 0.00                |                  |
| A1254BIO | 69+75+82/149+153+138               |                |                     | 0.00             |
| A1260    | 102/180                            |                | 0.00                | 0.00             |
| A1268    | 115/194                            |                | 0.00                | 0.00             |

Ortho Cl / biphenyl Residue = 1.30  
 Meta + Para Cl / biphenyl Residue = 1.20  
 Total Cl / biphenyl Residue = 2.49

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-FDBL-T150603120634  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 21:16:01  
 Lab Sample ID: AS11827RR1  
 LRF ID: 15060107-01RR1  
 Lab File ID: GC24-1178-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 2                | 11.70          | 188.7            | 19        | 0.771         | 4.09                 | 0.285      | 2.19      | JB   |
| 3                | 12.70          | 188.7            |           |               |                      | 5.51       | 1000      | U    |
| 4                | 12.81          | 188.7            |           |               |                      | 1.15       | 1.28      | U    |
| 5-4              | 16.44          | 223.1            | 4         |               |                      | 0.150      | 0.500     | U    |
| 5-10             | 16.63          | 223.1            | 3         |               |                      | 0.0742     | 0.500     | U    |
| 6                | 14.27          | 223.1            |           |               |                      | 0.0735     | 0.219     | U    |
| 7                | 14.54          | 223.1            | 426       | 2.28          | 10.2                 | 0.311      | 0.347     | B    |
| 8                | 14.75          | 223.1            | 103       | 0.581         | 2.61                 | 0.426      | 2.56      | JB   |
| 9                | 15.32          | 223.1            |           |               |                      | 0.859      | 25.0      | U    |
| 10               | 15.41          | 257.5            |           |               |                      | 0.0359     | 0.102     | U    |
| 11               | 15.87          | 257.5            |           |               |                      | 0.104      | 25.0      | U    |
| 12               | 15.93          | 223.1            |           |               |                      | 0.396      | 25.0      | U    |
| 13               | 16.12          | 223.1            |           |               |                      | 0.0396     | 0.0975    | U    |
| 14               | 16.26          | 249.0            |           |               |                      | 0.132      | 0.676     | U    |
| 15               | 16.35          | 257.5            |           |               |                      | 0.140      | 0.676     | U    |
| 16               | 16.65          | 257.5            |           |               |                      | 0.0320     | 0.0475    | U    |
| 17               | 16.91          | 257.5            |           |               |                      | 0.121      | 0.713     | U    |
| 19               | 17.35          | 267.9            |           |               |                      | 0.131      | 25.0      | U    |
| 20               | 17.52          | 257.5            |           |               |                      | 0.00734    | 0.0194    | U    |
| 21               | 17.66          | 257.5            |           |               |                      | 0.0343     | 0.132     | U    |
| 22               | 17.73          | 257.5            |           |               |                      | 0.0219     | 0.0585    | U    |
| 23               | 17.94          | 257.5            |           |               |                      | 0.111      | 0.753     | U    |
| 24               | 17.98          | 257.5            |           |               |                      | 0.149      | 0.964     | U    |
| 25               | 18.34          | 259.5            |           |               |                      | 0.142      | 0.726     | U    |
| 26               | 18.57          | 258.7            |           |               |                      | 0.112      | 0.530     | U    |
| 27               | 18.80          | 292.0            |           |               |                      | 0.0864     | 0.163     | U    |
| 28               | 18.93          | 257.5            |           |               |                      | 0.156      | 25.0      | U    |
| 29               | 19.08          | 292.0            |           |               |                      | 0.0356     | 0.0731    | U    |
| 30               | 19.18          | 257.5            |           |               |                      | 0.0623     | 25.0      | U    |
| 31               | 19.36          | 292.0            |           |               |                      | 0.127      | 0.872     | U    |
| 32               | 19.53          | 292.0            |           |               |                      | 0.125      | 0.420     | U    |
| 33               | 19.65          | 292.0            |           |               |                      | 0.0782     | 0.183     | U    |
| 34               | 19.71          | 292.0            |           |               |                      | 0.0415     | 0.183     | U    |
| 35               | 19.85          | 292.0            |           |               |                      | 0.0582     | 25.0      | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 36               | 19.93          | 257.5            |           |               |                      | 0.0934     | 25.0      | U    |
| 37               | 20.10          | 292.0            |           |               |                      | 0.251      | 0.786     | U    |
| 38               | 20.22          | 272.4            | 132       | 0.393         | 1.44                 | 0.122      | 0.475     | JB   |
| 39               | 20.58          | 292.0            |           |               |                      | 0.102      | 0.749     | U    |
| 41               | 20.75          | 326.4            |           |               |                      | 0.101      | 25.0      | U    |
| 42               | 20.84          | 292.0            | 47        | 0.0814        | 0.279                | 0.0358     | 0.172     | JB   |
| 43               | 21.09          | 298.9            |           |               |                      | 0.142      | 25.0      | U    |
| 44               | 21.25          | 298.9            |           |               |                      | 0.0226     | 0.0402    | U    |
| 45               | 21.41          | 292.0            |           |               |                      | 0.0333     | 0.0384    | U    |
| 46               | 21.56          | 292.0            | 128       |               |                      | 0.0721     | 0.347     | U    |
| 47               | 21.70          | 292.0            | 67        |               |                      | 0.106      | 0.621     | U    |
| 48               | 21.84          | 293.5            | 17        |               |                      | 0.216      | 1.32      | U    |
| 49               | 22.14          | 324.7            |           |               |                      | 0.0239     | 0.0932    | U    |
| 50               | 22.42          | 292.0            | 162       | 0.141         | 0.484                | 0.122      | 0.640     | J    |
| 51               | 22.67          | 326.4            | 192       | 0.750         | 2.30                 | 0.0989     | 0.329     | B    |
| 52               | 22.80          | 326.4            | 45        | 0.0991        | 0.304                | 0.0132     | 0.0366    | B    |
| 53               | 22.93          | 326.4            |           |               |                      | 0.0430     | 0.329     | U    |
| 54               | 23.12          | 326.4            |           |               |                      | 0.0172     | 0.135     | U    |
| 55               | 23.40          | 326.4            |           |               |                      | 0.00657    | 0.0102    | U    |
| 56               | 23.50          | 326.4            |           |               |                      | 0.0251     | 0.0548    | U    |
| 57               | 23.70          | 326.4            | 98        | 0.130         | 0.399                | 0.0653     | 0.102     | B    |
| 58               | 23.86          | 326.4            | 79        | 0.0801        | 0.245                | 0.0479     | 0.212     | JB   |
| 59               | 23.99          | 326.4            | 76        | 0.0837        | 0.256                | 0.0224     | 0.128     | JB   |
| 60               | 24.18          | 360.9            |           |               |                      | 0.0379     | 0.137     | U    |
| 61               | 24.30          | 326.4            |           |               |                      | 0.0690     | 0.389     | U    |
| 62               | 24.57          | 360.9            |           |               |                      | 0.116      | 25.0      | U    |
| 63               | 24.67          | 326.4            |           |               |                      | 0.0268     | 0.0804    | U    |
| 64               | 24.96          | 360.9            | 88        | 0.121         | 0.335                | 0.0497     | 0.311     | JB   |
| 65               | 25.10          | 350.5            |           |               |                      | 0.0150     | 0.0530    | U    |
| 66               | 25.15          | 360.9            |           |               |                      | 0.0349     | 0.110     | U    |
| 67               | 25.22          | 336.8            |           |               |                      | 0.0198     | 0.0475    | U    |
| 68               | 25.31          | 326.4            |           |               |                      | 0.158      | 25.0      | U    |
| 69               | 25.41          | 337.5            |           |               |                      | 0.154      | 0.731     | U    |
| 70               | 25.52          | 360.9            |           |               |                      | 0.102      | 25.0      | U    |
| 71               | 25.80          | 347.8            |           |               |                      | 0.0342     | 0.0369    | U    |
| 72               | 26.01          | 336.8            |           |               |                      | 0.00525    | 0.0106    | U    |
| 73               | 26.27          | 360.9            |           |               |                      | 0.0258     | 0.0713    | U    |
| 74               | 26.41          | 347.8            |           |               |                      | 0.0335     | 0.248     | U    |
| 75               | 26.55          | 360.9            |           |               |                      | 0.0829     | 0.538     | U    |
| 76               | 26.65          | 360.9            |           |               |                      | 0.0915     | 25.0      | U    |
| 77               | 27.08          | 360.9            |           |               |                      | 0.0445     | 0.311     | U    |
| 78               | 27.16          | 395.3            |           |               |                      | 0.0542     | 0.267     | U    |
| 79               | 27.37          | 360.9            |           |               |                      | 0.0298     | 0.0298    | U    |
| 80               | 27.52          | 360.9            |           |               |                      | 0.00954    | 0.0475    | U    |
| 82               | 27.73          | 360.9            |           |               |                      | 0.0665     | 0.493     | U    |
| 83               | 27.91          | 360.9            |           |               |                      | 0.0310     | 0.0457    | U    |
| 84               | 28.10          | 360.9            |           |               |                      | 0.00213    | 0.00473   | U    |
| 85               | 28.45          | 395.3            |           |               |                      | 0.0563     | 0.201     | U    |
| 87               | 28.75          | 395.3            |           |               |                      | 0.0298     | 0.0731    | U    |
| 88               | 28.90          | 395.3            |           |               |                      | 0.0923     | 0.658     | U    |
| 89               | 29.03          | 360.9            |           |               |                      | 0.0213     | 0.0366    | U    |
| 90               | 29.20          | 395.3            |           |               |                      | 0.0576     | 0.311     | U    |



**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-FDBL-T150603120634  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 21:16:01  
 Lab Sample ID: AS11827RR1  
 LRF ID: 15060107-01RR1  
 Lab File ID: GC24-1178-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|--------|------------------------|----------------|--------------|
| 2                | 11.70          | 1:1       | 001                  | 0.2543 | 2                      | 14.003         | 17.821       |
| 3                | 12.70          | 1:0       | 002                  |        | 3                      | -              | -            |
| 4                | 12.81          | 1:0       | 003                  |        | 4                      | -              | -            |
| 5-4              | 16.44          | 2:2       | 004                  |        | 2-2                    | -              | -            |
| 5-10             | 16.63          | 2:2       | 010                  |        | 26                     | -              | -            |
| 6                | 14.27          | 2:1       | 007 009              |        | 24; 25                 | -              | -            |
| 7                | 14.54          | 2:1       | 006                  | 0.3161 | 2-3                    | 41.322         | 44.479       |
| 8                | 14.75          | 2:1       | 005 008              | 0.3207 | 23; 2-4                | 10.551         | 11.357       |
| 9                | 15.32          | 2:0       | 014                  |        | 35                     | -              | -            |
| 10               | 15.41          | 3:3       | 019                  |        | 26-2                   | -              | -            |
| 11               | 15.87          | 3:2       | 030                  |        | 246                    | -              | -            |
| 12               | 15.93          | 2:0       | 011                  |        | 3-3                    | -              | -            |
| 13               | 16.12          | 2:0       | 012 013              |        | 34; 3-4                | -              | -            |
| 14               | 16.26          | 2:0 3:2   | 015 018              |        | 4-4; 25-2              | -              | -            |
| 15               | 16.35          | 3:2       | 017                  |        | 24-2                   | -              | -            |
| 16               | 16.65          | 3:2       | 024 027              |        | 236; 26-3              | -              | -            |
| 17               | 16.91          | 3:2       | 016 032              |        | 23-2; 26-4             | -              | -            |
| 19               | 17.35          | 3:1 4:4   | 023 034 054          |        | 235; 35-2; 26-26       | -              | -            |
| 20               | 17.52          | 3:1       | 029                  |        | 245                    | -              | -            |
| 21               | 17.66          | 3:1       | 026                  |        | 25-3                   | -              | -            |
| 22               | 17.73          | 3:1       | 025                  |        | 24-3                   | -              | -            |
| 23               | 17.94          | 3:1       | 031                  |        | 25-4                   | -              | -            |
| 24               | 17.98          | 3:1 4:3   | 028 050              |        | 24-4; 246-2            | -              | -            |
| 25               | 18.34          | 3:1 4:3   | 020 021 033 053      |        | 23-3; 234; 34-2; 25-26 | -              | -            |
| 26               | 18.57          | 3:1 4:3   | 022 051              |        | 23-4; 24-26            | -              | -            |
| 27               | 18.80          | 4:3       | 045                  |        | 236-2                  | -              | -            |
| 28               | 18.93          | 3:0       | 036                  |        | 35-3                   | -              | -            |
| 29               | 19.08          | 4:3       | 046                  |        | 23-26                  | -              | -            |
| 30               | 19.18          | 3:0       | 039                  |        | 35-4                   | -              | -            |
| 31               | 19.36          | 4:2       | 052 069 073          |        | 25-25; 246-3; 26-35    | -              | -            |
| 32               | 19.53          | 4:2       | 043 049              |        | 235-2; 24-25           | -              | -            |
| 33               | 19.65          | 4:2       | 038 047              |        | 345; 24-24             | -              | -            |
| 34               | 19.71          | 4:2       | 048 075              |        | 245-2; 246-4           | -              | -            |
| 35               | 19.85          | 4:2       | 062 065              |        | 2346; 2356             | -              | -            |
| 36               | 19.93          | 3:0       | 035                  |        | 34-3                   | -              | -            |
| 37               | 20.10          | 5:4 4:2   | 104 044              |        | 246-26; 23-25          | -              | -            |
| 38               | 20.22          | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3     | 7.139          | 6.294        |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight Percent | Mole Percent |
|------------------|----------------|-----------|---------------------------------|--------|---|----------------|--------------|
| 39               | 20.58          | 4:2       | 041 064 071 072                 |        | 234-2; 236-4; 26-34; 25-35                                  | -              | -            |
| 41               | 20.75          | 5:4       | 068 096                         |        | 24-35; 236-26   | -              | -            |
| 42               | 20.84          | 4:2       | 040                             | 0.4530 | 23-23   | 1.477          | 1.215        |
| 43               | 21.09          | 4:1 5:3   | 057 103                         |        | 235-3; 246-25   | -              | -            |
| 44               | 21.25          | 4:1 5:3   | 058 067 100                     |        | 23-35; 245-3; 246-24  | -              | -            |
| 45               | 21.41          | 4:1       | 063                             |        | 235-4   | -              | -            |
| 46               | 21.56          | 4:1 5:3   | 074 094 061                     |        | 245-4; 235-26; 2345   | -              | -            |
| 47               | 21.70          | 4:1       | 070                             |        | 25-34   | -              | -            |
| 48               | 21.84          | 4:1 5:3   | 066 076 098 080 093 095 102 088 |        | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | -              | -            |
| 49               | 22.14          | 4:1 5:3   | 055 091 121                     |        | 234-3; 236-24; 246-35                                       | -              | -            |
| 50               | 22.42          | 4:1       | 056 060                         | 0.4874 | 23-34; 234-4  | 2.563          | 2.108        |
| 51               | 22.67          | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 13.611         | 10.014       |
| 52               | 22.80          | 5:3       | 089                             | 0.4957 | 234-26  | 1.799          | 1.324        |
| 53               | 22.93          | 5:2       | 090 101                         |        | 235-24; 245-25  | -              | -            |
| 54               | 23.12          | 5:2       | 079 099 113                     |        | 34-35; 245-24; 236-35                                       | -              | -            |
| 55               | 23.40          | 5:2 6:4   | 119 150                         |        | 246-34; 236-246   | -              | -            |
| 56               | 23.50          | 5:2       | 078 083 112 108                 |        | 345-3; 235-23; 2356-3; 2346-3                               | -              | -            |
| 57               | 23.70          | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 2.366          | 1.741        |
| 58               | 23.86          | 5:2       | 081 087 117 125 115 145         | 0.5187 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 1.453          | 1.069        |
| 59               | 23.99          | 5:2       | 116 085 111                     | 0.5215 | 23456; 234-24; 235-35                                       | 1.518          | 1.117        |
| 60               | 24.18          | 6:4       | 120 136                         |        | 245-35; 236-236   | -              | -            |
| 61               | 24.30          | 5:2       | 077 110 148                     |        | 34-34; 236-34; 235-246                                      | -              | -            |
| 62               | 24.57          | 6:3       | 154                             |        | 245-246   | -              | -            |
| 63               | 24.67          | 5:2       | 082                             |        | 234-23  | -              | -            |
| 64               | 24.96          | 6:3       | 151                             | 0.5426 | 2356-25   | 2.195          | 1.461        |
| 65               | 25.10          | 5:1 6:3   | 124 135                         |        | 345-25; 235-236   | -              | -            |
| 66               | 25.15          | 6:3       | 144                             |        | 2346-25   | -              | -            |
| 67               | 25.22          | 5:1 6:3   | 107 109 147                     |        | 234-35; 235-34; 2356-24                                     | -              | -            |
| 68               | 25.31          | 5:1       | 123                             |        | 345-24  | -              | -            |
| 69               | 25.41          | 5:1 6:3   | 106 118 139 149                 |        | 2345-3; 245-34; 2346-24; 236-245                            | -              | -            |
| 70               | 25.52          | 6:3       | 140                             |        | 234-246   | -              | -            |
| 71               | 25.80          | 5:1 6:3   | 114 134 143                     |        | 2345-4; 2356-23; 2345-26                                    | -              | -            |
| 72               | 26.01          | 5:1 6:3   | 122 131 133 142                 |        | 345-23; 2346-23; 235-235; 23456-2                           | -              | -            |
| 73               | 26.27          | 6:2       | 146 165 188                     |        | 235-245; 2356-35; 2356-246                                  | -              | -            |
| 74               | 26.41          | 5:1 6:3   | 105 132 161                     |        | 234-34; 234-236; 2346-35                                    | -              | -            |
| 75               | 26.55          | 6:2       | 153                             |        | 245-245   | -              | -            |
| 76               | 26.65          | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -              | -            |
| 77               | 27.08          | 6:2       | 141                             |        | 2345-25   | -              | -            |
| 78               | 27.16          | 7:4       | 179                             |        | 2356-236  | -              | -            |
| 79               | 27.37          | 6:2       | 137                             |        | 2345-24   | -              | -            |
| 80               | 27.52          | 6:2 7:4   | 130 176                         |        | 234-235; 2346-236   | -              | -            |
| 82               | 27.73          | 6:2       | 138 163 164                     |        | 234-245; 2356-34; 236-345                                   | -              | -            |
| 83               | 27.91          | 6:2       | 158 160 186                     |        | 2346-34; 23456-3; 23456-26                                  | -              | -            |
| 84               | 28.10          | 6:2       | 126 129                         |        | 345-34; 2345-23   | -              | -            |
| 85               | 28.45          | 7:3       | 166 178                         |        | 23456-4; 2356-235   | -              | -            |
| 87               | 28.75          | 7:3       | 175 159                         |        | 2346-235; 2345-35   | -              | -            |
| 88               | 28.90          | 7:3       | 182 187                         |        | 2345-246; 2356-245  | -              | -            |
| 89               | 29.03          | 6:2       | 128 162                         |        | 234-234; 235-345  | -              | -            |
| 90               | 29.20          | 7:3       | 183                             |        | 2346-245  | -              | -            |
| 91               | 29.46          | 6:1       | 167                             |        | 245-345   | -              | -            |
| 92               | 29.80          | 7:3       | 185                             |        | 23456-25  | -              | -            |
| 93               | 30.17          | 7:3       | 174 181                         |        | 2345-236; 23456-24  | -              | -            |
| 94               | 30.43          | 7:3       | 177                             |        | 2356-234  | -              | -            |
| 95               | 30.74          | 6:1 7:3   | 156 171                         |        | 2345-34; 2346-234   | -              | -            |
| 96               | 30.99          | 8:4       | 157 202                         |        | 234-345; 2356-2356  | -              | -            |
| 98               | 31.16          | 7:3       | 173                             |        | 23456-23  | -              | -            |
| 99               | 31.52          | 8:4       | 201                             |        | 2346-2356   | -              | -            |
| 100              | 31.76          | 7:2       | 172 204                         |        | 2345-235; 23456-246   | -              | -            |
| 101              | 32.06          | 8:4       | 192 197                         |        | 23456-35; 2346-2346   | -              | -            |
| 102              | 32.23          | 7:2       | 180                             |        | 2345-245  | -              | -            |
| 103              | 32.48          | 7:2       | 193                             |        | 2356-345  | -              | -            |
| 104              | 32.79          | 7:2       | 191                             |        | 2346-345  | -              | -            |
| 105              | 33.15          | 8:4       | 200 169                         |        | 23456-236; 345-345  | -              | -            |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|-----|------------------------|----------------|--------------|
| 106              | 34.28          | 7:2       | <b>170</b>           |     | 2345-234               | -              | -            |
| 107              | 34.54          | 7:2       | <b>190</b>           |     | 23456-34               | -              | -            |
| 108              | 35.39          | 8:3       | <b>198</b>           |     | 23456-235              | -              | -            |
| 109              | 35.63          | 8:3       | <b>199</b>           |     | 2345-2356              | -              | -            |
| 110              | 36.15          | 8:3       | <b>196 203</b>       |     | 2345-2346; 23456-245   | -              | -            |
| 111              | 37.29          | 7:1       | <b>189</b>           |     | 2345-345               | -              | -            |
| 112              | 38.84          | 8:3       | <b>195</b>           |     | 23456-234              | -              | -            |
| 113              | 39.35          | 9:4       | <b>208</b>           |     | 23456-2356             | -              | -            |
| 114              | 40.26          | 9:4       | <b>207</b>           |     | 23456-2346             | -              | -            |
| 115              | 41.66          | 8:2       | <b>194</b>           |     | 2345-2345              | -              | -            |
| 116              | 42.54          | 8:2       | <b>205</b>           |     | 23456-345              | -              | -            |
| 117              | 47.61          | 9:3       | <b>206</b>           |     | 23456-2345             | -              | -            |
| 118              | 53.55          | 10:4      | <b>209</b>           |     | 23456-23456            | -              | -            |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = <8.04 ng/L

Total Nanomoles = 0.023

Average Molecular Weight = 240.1

Number of Calibrated Peaks Found = 17

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <b>77</b>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <b>122</b>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105( <b>200</b> ,169)                                    | <i>169</i>                  |

<sup>5</sup>

Note: This is not a NYSDOH ELAP certified method.

**PCB SAMPLE ANALYSIS DATA SHEET**

|                           |   |                     |                               |
|---------------------------|---|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>               | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>  | LRF ID:             | <u>15060107-01RR2</u>         |
| Matrix:                   | <u>Water</u>  | Client ID:          | <u>FRS-FDBL-T150603120634</u> |
| Sample Wt(Dry)/Vol:       | <u>1040 mL</u>                                      | Lab Sample ID:      | <u>AS11827RR2</u>             |
| % Moisture:               | <u>100</u>  | Lab File ID:        | <u>GC30-458-5</u>             |
| Extraction:               | <u>1L - Solid Phase Extraction</u>                  | Date Received:      | <u>06/04/2015</u>             |
| Conc. Extract Volume:     | <u>5000 uL</u>                                      | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>1.0 uL</u>                                       | Date/Time Analyzed: | <u>06/11/2015 18:47</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                                 | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                             | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm</u> |                     |                               |

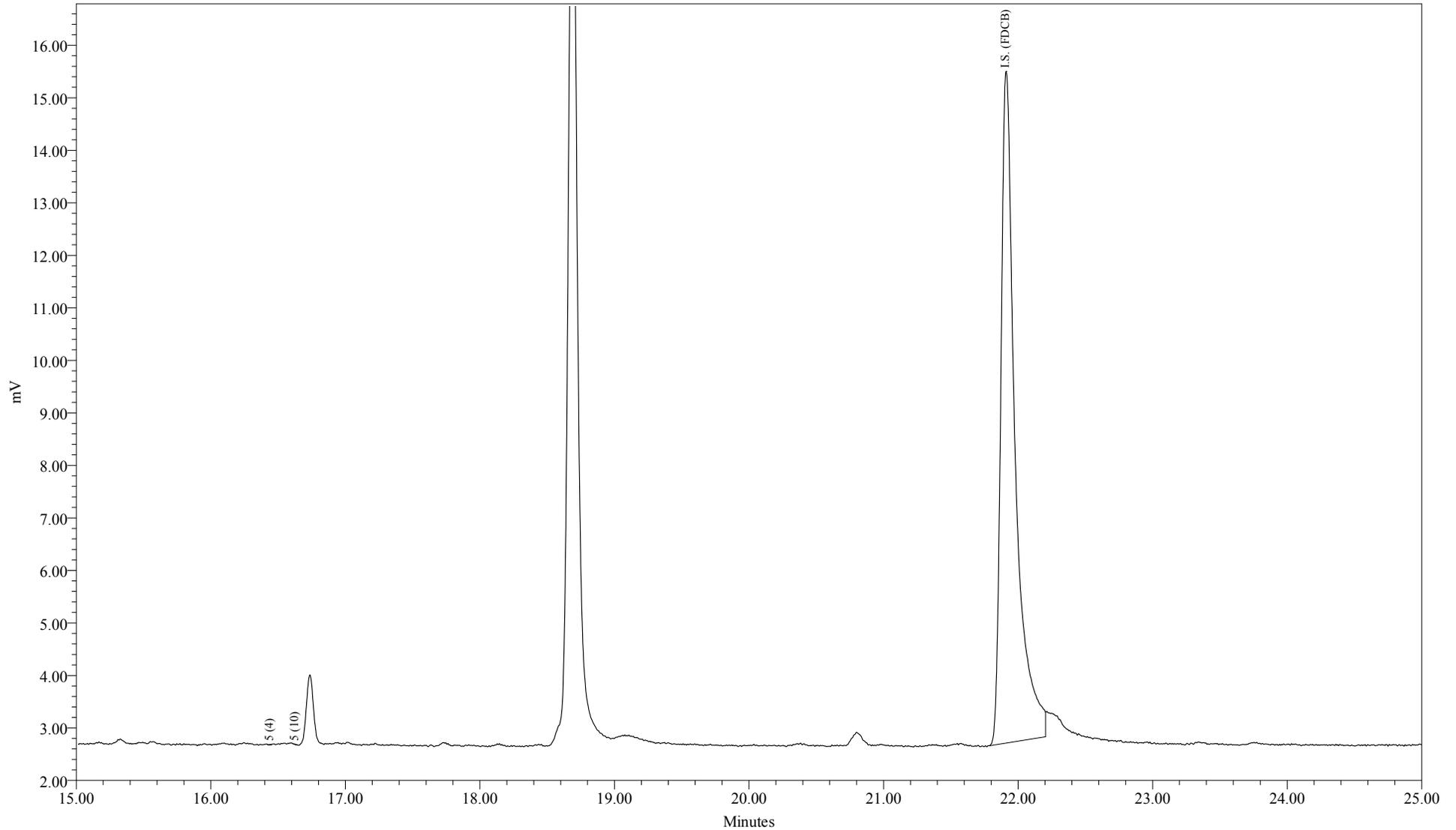
FDCB (I.S.) Peak Area: 94889

Percent Recovery (50 - 150 %): 110

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11827RR2  
Sample ID: FRS-FDBL-T150603120634  
Date Acquired: 6/11/2015 6:47:48 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-458-5 [m]

### PCB SAMPLE ANALYSIS DATA SHEET

|                           |  |                     |                               |
|---------------------------|--|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>          | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>                                   | LRF ID:             | <u>15060107-02</u>            |
| Matrix:                   | <u>Water</u>                                   | Client ID:          | <u>FRS-STWA-T150603120444</u> |
| Sample Wt(Dry)/Vol:       | <u>1040 mL</u>                                 | Lab Sample ID:      | <u>AS11828</u>                |
| % Moisture:               | <u>100</u>                                     | Lab File ID:        | <u>GC24-1177-6</u>            |
| Extraction:               | <u>1L - Solid Phase Extraction</u>             | Date Received:      | <u>06/04/2015</u>             |
| Conc. Extract Volume:     | <u>5000 uL</u>                                 | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>0.5 uL</u>                                  | Date/Time Analyzed: | <u>06/10/2015 20:27</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                            | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                        | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm</u> |                     |                               |

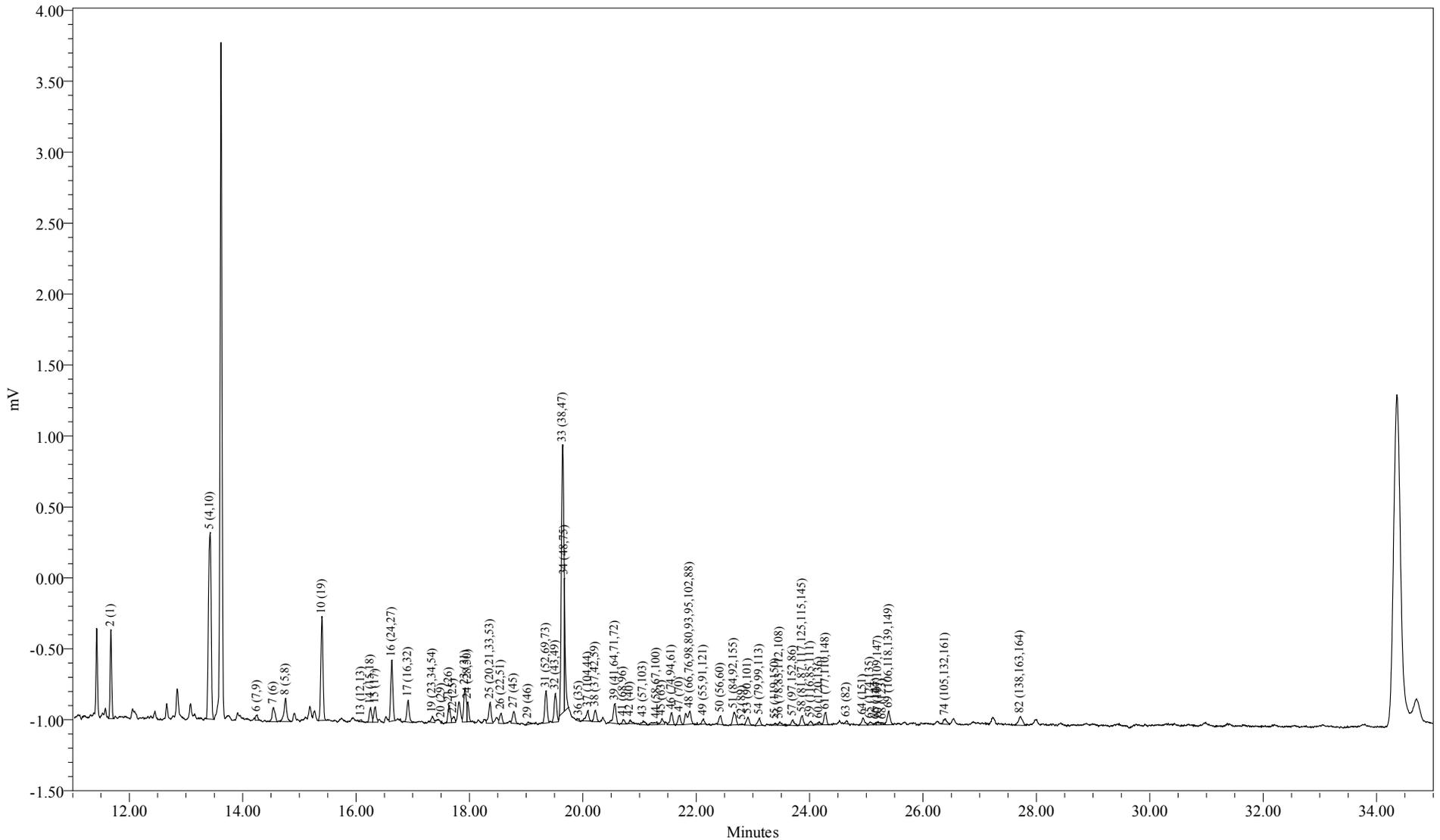
OCN (I.S.) Peak Area: 61428

Percent Recovery (50 - 150 %): 107

SAMPLE TOTAL PCB CONCENTRATION: 240 ng/L

Visual Aroclor ID: Altered Aroclor 1242

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11828  
 Sample ID: FRS-STWA-T150603120444  
 Date Acquired: 6/10/2015 8:27:14 PM EDT

Sample Amount (L) : 1.0400  
 Dilution: 5  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-T177-6 [m]

### PCB SAMPLE ANALYSIS DATA SHEET

|                           |   |                     |                               |
|---------------------------|---|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>               | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>  | LRF ID:             | <u>15060107-02RR1</u>         |
| Matrix:                   | <u>Water</u>  | Client ID:          | <u>FRS-STWA-T150603120444</u> |
| Sample Wt(Dry)/Vol:       | <u>1040 mL</u>                                      | Lab Sample ID:      | <u>AS11828RR1</u>             |
| % Moisture:               | <u>100</u>  | Lab File ID:        | <u>GC30-457-7</u>             |
| Extraction:               | <u>1L - Solid Phase Extraction</u>                  | Date Received:      | <u>06/04/2015</u>             |
| Conc. Extract Volume:     | <u>5000 uL</u>                                      | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>1.0 uL</u>                                       | Date/Time Analyzed: | <u>06/10/2015 19:46</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                                 | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                             | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm</u> |                     |                               |

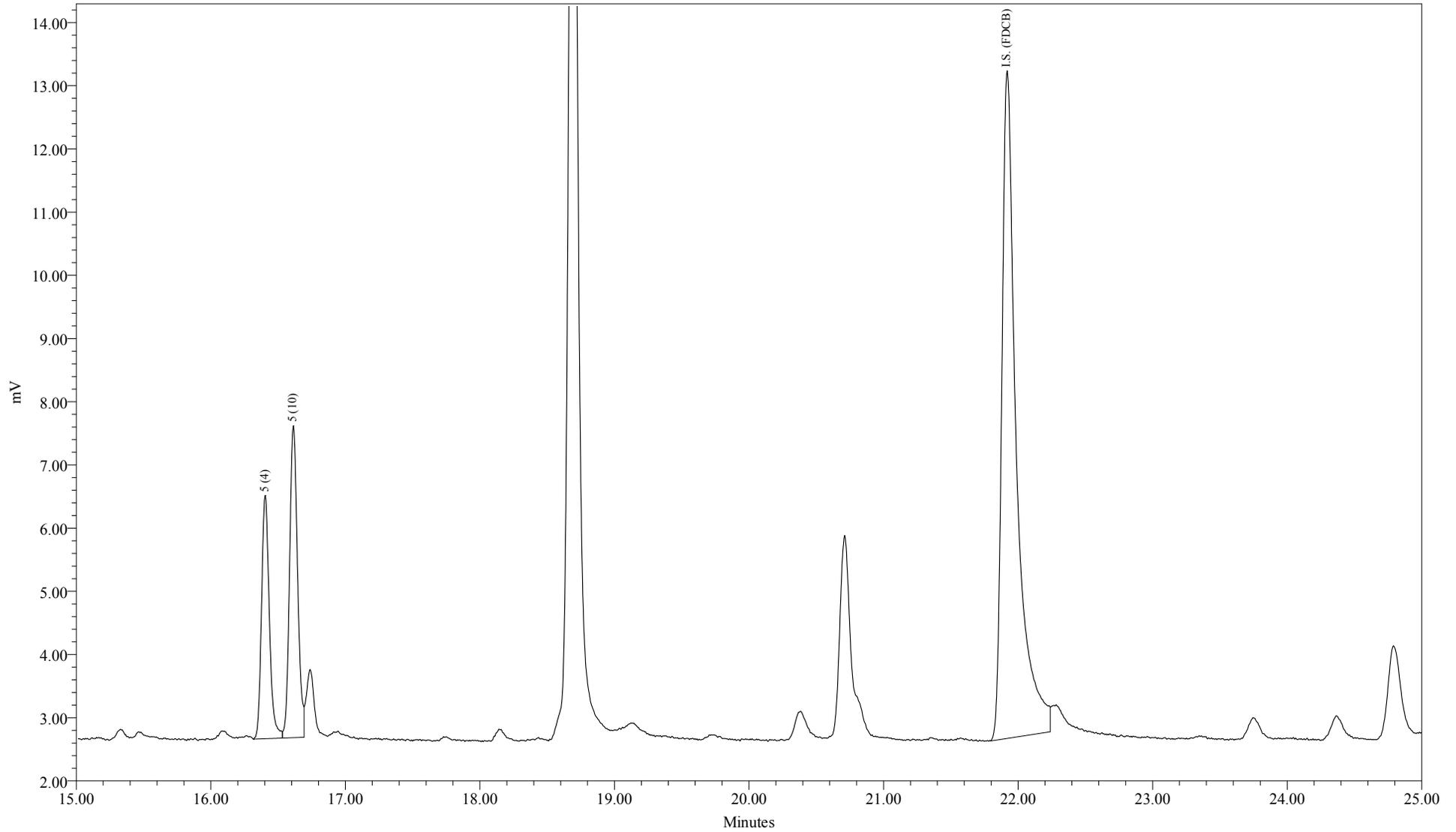
FDCB (I.S.) Peak Area: 79867

Percent Recovery (50 - 150 %): 92.9

SAMPLE TOTAL PCB CONCENTRATION: 240 ng/L

Visual Aroclor ID: Altered Aroclor 1242

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11828RR1  
Sample ID: FRS-STWA-T150603120444  
Date Acquired: 6/10/2015 7:46:00 PM EDT

Sample Amount (L) : 1.0400  
Dilution: 5  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-7 [A]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-STWA-T150603120444  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 20:27:14  
 Lab Sample ID: AS11828  
 LRF ID: 15060107-02  
 Lab File ID: GC24-1177-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 240 ng/L

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 23.97    | 28.36  |
| Di       | 53.47    | 53.52  |
| Tri      | 10.95    | 9.48   |
| Tetra    | 8.81     | 6.75   |
| Penta    | 2.21     | 1.51   |
| Hexa     | 0.60     | 0.37   |
| Hepta    | 0.00     | 0.00   |
| Octa     | 0.00     | 0.00   |
| Nona     | 0.00     | 0.00   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>ng/L | Percent<br>Sediment | Percent<br>Biota |
|----------|------------------------------------|----------------|---------------------|------------------|
| A1221    | 2/001                              | 57.5220        | 94.5                | 94.1             |
| A1242    | 23+24/31+28                        | 2.7813         | 4.57                | 4.55             |
| A1254SED | 61/100                             | 0.5817         | 0.955               |                  |
| A1254BIO | 69+75+82/149+153+138               | 0.8153         |                     | 1.33             |
| A1260    | 102/180                            |                | 0.00                | 0.00             |
| A1268    | 115/194                            |                | 0.00                | 0.00             |

Ortho Cl / biphenyl Residue = 1.68

Meta + Para Cl / biphenyl Residue = 0.32

Total Cl / biphenyl Residue = 2.01

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-STWA-T150603120444  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 20:27:14  
 Lab Sample ID: AS11828  
 LRF ID: 15060107-02  
 Lab File ID: GC24-1177-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 2                | 11.67          | 188.7            | 1155      | 57.5          | 305                  | 0.285      | 2.19      | B    |
| 3                | 12.70          | 188.7            |           |               |                      | 5.51       | 1000      | U    |
| 4                | 12.81          | 188.7            |           |               |                      | 1.15       | 1.28      | U    |
| 5-4              | 16.40          | 223.1            | 15497     | 98.1          | 440                  | 0.150      | 0.500     |      |
| 5-10             | 16.61          | 223.1            | 20381     | 20.6          | 92.4                 | 0.0742     | 0.500     |      |
| 6                | 14.25          | 223.1            | 98        | 0.300         | 1.34                 | 0.0735     | 0.219     |      |
| 7                | 14.54          | 223.1            | 359       | 2.36          | 10.6                 | 0.311      | 0.347     | B    |
| 8                | 14.75          | 223.1            | 539       | 6.56          | 29.4                 | 0.426      | 2.56      | B    |
| 9                | 15.32          | 223.1            |           |               |                      | 0.859      | 25.0      | U    |
| 10               | 15.40          | 257.5            | 1936      | 9.08          | 35.3                 | 0.0359     | 0.102     |      |
| 11               | 15.87          | 257.5            |           |               |                      | 0.104      | 25.0      | U    |
| 12               | 15.93          | 223.1            |           |               |                      | 0.396      | 25.0      | U    |
| 13               | 16.09          | 223.1            | 39        | 0.155         | 0.694                | 0.0396     | 0.0975    |      |
| 14               | 16.25          | 249.0            | 290       | 1.00          | 4.02                 | 0.132      | 0.676     |      |
| 15               | 16.34          | 257.5            | 315       | 2.80          | 10.9                 | 0.140      | 0.676     |      |
| 16               | 16.63          | 257.5            | 1144      | 3.33          | 12.9                 | 0.0320     | 0.0475    |      |
| 17               | 16.92          | 257.5            | 440       | 2.19          | 8.49                 | 0.121      | 0.713     | B    |
| 19               | 17.34          | 267.9            | 126       | 0.499         | 1.86                 | 0.131      | 25.0      | J    |
| 20               | 17.51          | 257.5            | 19        | 0.0754        | 0.293                | 0.00734    | 0.0194    |      |
| 21               | 17.64          | 257.5            | 351       | 1.42          | 5.53                 | 0.0343     | 0.132     |      |
| 22               | 17.71          | 257.5            | 132       | 0.417         | 1.62                 | 0.0219     | 0.0585    |      |
| 23               | 17.92          | 257.5            | 741       | 2.17          | 8.41                 | 0.111      | 0.753     |      |
| 24               | 17.97          | 257.5            | 293       | 0.615         | 2.39                 | 0.149      | 0.964     | J    |
| 25               | 18.36          | 259.5            | 454       | 1.66          | 6.40                 | 0.142      | 0.726     |      |
| 26               | 18.55          | 258.7            | 216       | 0.767         | 2.96                 | 0.112      | 0.530     |      |
| 27               | 18.78          | 292.0            | 271       | 0.909         | 3.11                 | 0.0864     | 0.163     |      |
| 28               | 18.93          | 257.5            |           |               |                      | 0.156      | 25.0      | U    |
| 29               | 19.03          | 292.0            | 56        | 0.212         | 0.727                | 0.0356     | 0.0731    |      |
| 30               | 19.18          | 257.5            |           |               |                      | 0.0623     | 25.0      | U    |
| 31               | 19.35          | 292.0            | 653       | 2.62          | 8.98                 | 0.127      | 0.872     |      |
| 32               | 19.52          | 292.0            | 604       | 1.23          | 4.21                 | 0.125      | 0.420     |      |
| 33               | 19.64          | 292.0            | 5613      | 8.71          | 29.8                 | 0.0782     | 0.183     |      |
| 34               | 19.67          | 292.0            | 1037      | 2.33          | 7.97                 | 0.0415     | 0.183     |      |
| 35               | 19.85          | 292.0            |           |               |                      | 0.0582     | 25.0      | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 36               | 19.93          | 257.5            | 43        | 0.225         | 0.873                | 0.0934     | 25.0      | J    |
| 37               | 20.09          | 292.0            | 246       | 0.530         | 1.82                 | 0.251      | 0.786     | J    |
| 38               | 20.22          | 272.4            | 257       | 0.936         | 3.43                 | 0.122      | 0.475     | B    |
| 39               | 20.56          | 292.0            | 493       | 0.983         | 3.37                 | 0.102      | 0.749     |      |
| 41               | 20.71          | 326.4            | 91        | 0.315         | 0.966                | 0.101      | 25.0      | J    |
| 42               | 20.83          | 292.0            | 72        | 0.177         | 0.606                | 0.0358     | 0.172     | B    |
| 43               | 21.06          | 298.9            | 116       | 0.297         | 0.995                | 0.142      | 25.0      | J    |
| 44               | 21.30          | 298.9            | 111       | 0.213         | 0.712                | 0.0226     | 0.0402    |      |
| 45               | 21.39          | 292.0            | 141       | 0.302         | 1.03                 | 0.0333     | 0.0384    |      |
| 46               | 21.56          | 292.0            | 277       | 0.328         | 1.12                 | 0.0721     | 0.347     | JB   |
| 47               | 21.71          | 292.0            | 218       | 0.305         | 1.04                 | 0.106      | 0.621     | J    |
| 48               | 21.89          | 293.5            | 531       | 1.21          | 4.12                 | 0.216      | 1.32      | J    |
| 49               | 22.13          | 324.7            | 101       | 0.266         | 0.818                | 0.0239     | 0.0932    | B    |
| 50               | 22.43          | 292.0            | 199       | 0.272         | 0.930                | 0.122      | 0.640     | J    |
| 51               | 22.66          | 326.4            | 338       | 1.66          | 5.08                 | 0.0989     | 0.329     | B    |
| 52               | 22.81          | 326.4            | 8         | 0.0183        | 0.0561               | 0.0132     | 0.0366    | JB   |
| 53               | 22.91          | 326.4            | 194       | 0.397         | 1.22                 | 0.0430     | 0.329     |      |
| 54               | 23.11          | 326.4            | 166       | 0.251         | 0.769                | 0.0172     | 0.135     |      |
| 55               | 23.39          | 326.4            | 45        | 0.0471        | 0.144                | 0.00657    | 0.0102    |      |
| 56               | 23.47          | 326.4            | 68        | 0.175         | 0.535                | 0.0251     | 0.0548    |      |
| 57               | 23.70          | 326.4            | 138       | 0.234         | 0.716                | 0.0653     | 0.102     | B    |
| 58               | 23.87          | 326.4            | 239       | 0.444         | 1.36                 | 0.0479     | 0.212     | B    |
| 59               | 24.02          | 326.4            | 93        | 0.138         | 0.422                | 0.0224     | 0.128     | B    |
| 60               | 24.17          | 360.9            | 92        | 0.167         | 0.463                | 0.0379     | 0.137     |      |
| 61               | 24.28          | 326.4            | 271       | 0.582         | 1.78                 | 0.0690     | 0.389     |      |
| 62               | 24.57          | 360.9            |           |               |                      | 0.116      | 25.0      | U    |
| 63               | 24.65          | 326.4            | 55        | 0.1000        | 0.306                | 0.0268     | 0.0804    |      |
| 64               | 24.94          | 360.9            | 196       | 0.372         | 1.03                 | 0.0497     | 0.311     | B    |
| 65               | 25.06          | 350.5            | 78        | 0.0897        | 0.256                | 0.0150     | 0.0530    |      |
| 66               | 25.17          | 360.9            | 33        | 0.118         | 0.327                | 0.0349     | 0.110     |      |
| 67               | 25.21          | 336.8            | 80        | 0.194         | 0.576                | 0.0198     | 0.0475    |      |
| 68               | 25.29          | 326.4            | 43        |               |                      | 0.158      | 25.0      | U    |
| 69               | 25.40          | 337.5            | 346       | 0.427         | 1.27                 | 0.154      | 0.731     | J    |
| 70               | 25.52          | 360.9            |           |               |                      | 0.102      | 25.0      | U    |
| 71               | 25.80          | 347.8            |           |               |                      | 0.0342     | 0.0369    | U    |
| 72               | 26.01          | 336.8            |           |               |                      | 0.00525    | 0.0106    | U    |
| 73               | 26.27          | 360.9            |           |               |                      | 0.0258     | 0.0713    | U    |
| 74               | 26.39          | 347.8            | 153       | 0.210         | 0.604                | 0.0335     | 0.248     | J    |
| 75               | 26.55          | 360.9            |           |               |                      | 0.0829     | 0.538     | U    |
| 76               | 26.65          | 360.9            |           |               |                      | 0.0915     | 25.0      | U    |
| 77               | 27.08          | 360.9            |           |               |                      | 0.0445     | 0.311     | U    |
| 78               | 27.16          | 395.3            |           |               |                      | 0.0542     | 0.267     | U    |
| 79               | 27.37          | 360.9            |           |               |                      | 0.0298     | 0.0298    | U    |
| 80               | 27.52          | 360.9            |           |               |                      | 0.00954    | 0.0475    | U    |
| 82               | 27.72          | 360.9            | 308       | 0.388         | 1.07                 | 0.0665     | 0.493     | J    |
| 83               | 27.91          | 360.9            |           |               |                      | 0.0310     | 0.0457    | U    |
| 84               | 28.10          | 360.9            |           |               |                      | 0.00213    | 0.00473   | U    |
| 85               | 28.45          | 395.3            |           |               |                      | 0.0563     | 0.201     | U    |
| 87               | 28.75          | 395.3            |           |               |                      | 0.0298     | 0.0731    | U    |
| 88               | 28.90          | 395.3            |           |               |                      | 0.0923     | 0.658     | U    |
| 89               | 29.03          | 360.9            |           |               |                      | 0.0213     | 0.0366    | U    |
| 90               | 29.20          | 395.3            |           |               |                      | 0.0576     | 0.311     | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 91               | 29.46          | 360.9            |           |               |                      | 0.0299     | 0.0299    | U    |
| 92               | 29.80          | 394.3            |           |               |                      | 0.0169     | 0.0859    | U    |
| 93               | 30.17          | 394.3            |           |               |                      | 0.0993     | 0.585     | U    |
| 94               | 30.43          | 394.3            |           |               |                      | 0.0637     | 0.311     | U    |
| 95               | 30.74          | 382.2            |           |               |                      | 0.0406     | 0.144     | U    |
| 96               | 30.99          | 429.8            |           |               |                      | 0.00708    | 0.0121    | U    |
| 98               | 31.16          | 395.3            |           |               |                      | 0.00746    | 0.0139    | U    |
| 99               | 31.52          | 429.8            |           |               |                      | 0.0412     | 0.0713    | U    |
| 100              | 31.76          | 395.3            |           |               |                      | 0.0559     | 0.102     | U    |
| 101              | 32.06          | 429.8            |           |               |                      | 0.0147     | 0.0402    | U    |
| 102              | 32.23          | 395.3            |           |               |                      | 0.156      | 1.11      | U    |
| 103              | 32.48          | 395.3            |           |               |                      | 0.0395     | 0.0768    | U    |
| 104              | 32.79          | 395.3            |           |               |                      | 0.0224     | 0.0438    | U    |
| 105              | 33.15          | 429.8            |           |               |                      | 0.0159     | 0.0786    | U    |
| 106              | 34.28          | 395.3            |           |               |                      | 0.182      | 0.234     | U    |
| 107              | 34.54          | 395.3            |           |               |                      | 0.0564     | 0.0768    | U    |
| 108              | 35.39          | 429.8            |           |               |                      | 0.0234     | 0.0438    | U    |
| 109              | 35.63          | 429.8            |           |               |                      | 0.0961     | 0.768     | U    |
| 110              | 36.15          | 429.8            |           |               |                      | 0.176      | 0.786     | U    |
| 111              | 37.29          | 395.3            |           |               |                      | 0.0207     | 0.0207    | U    |
| 112              | 38.84          | 429.8            |           |               |                      | 0.0217     | 0.101     | U    |
| 113              | 39.35          | 464.2            |           |               |                      | 0.0429     | 0.0903    | U    |
| 114              | 40.26          | 464.2            |           |               |                      | 0.0138     | 0.0340    | U    |
| 115              | 41.66          | 429.8            |           |               |                      | 0.0710     | 0.329     | U    |
| 116              | 42.54          | 429.8            |           |               |                      | 0.0762     | 0.0762    | U    |
| 117              | 47.61          | 464.2            |           |               |                      | 0.0775     | 0.124     | U    |
| 118              | 53.55          | 498.6            |           |               |                      | 0.00690    | 0.00690   | U    |

Total Concentration = 240 ng/L

8.04 32.2

Total Nanomoles = 1.075

Average Molecular Weight = 223.3

Number of Calibrated Peaks Found = 60

OCN Internal Standard Retention Time = 45.99 minutes

OCN Internal Standard Peak Area = 61428.4

FDBC Internal Standard Retention Time = 21.92 minutes

FDBC Internal Standard Peak Area = 79867.3

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: FRS-STWA-T150603120444  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 20:27:14  
 Lab Sample ID: AS11828  
 LRF ID: 15060107-02  
 Lab File ID: GC24-1177-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|--------|------------------------|----------------|--------------|
| 2                | 11.67          | 1:1       | 001                  | 0.2538 | 2                      | 23.966         | 28.364       |
| 3                | 12.70          | 1:0       | 002                  |        | 3                      | -              | -            |
| 4                | 12.81          | 1:0       | 003                  |        | 4                      | -              | -            |
| 5-4              | 16.40          | 2:2       | 004                  | 0.3566 | 2-2                    | 40.869         | 40.912       |
| 5-10             | 16.61          | 2:2       | 010                  | 0.3612 | 26                     | 8.589          | 8.598        |
| 6                | 14.25          | 2:1       | 007 009              | 0.3098 | 24; 25                 | 0.125          | 0.125        |
| 7                | 14.54          | 2:1       | 006                  | 0.3162 | 2-3                    | 0.985          | 0.986        |
| 8                | 14.75          | 2:1       | 005 008              | 0.3207 | 23; 2-4                | 2.734          | 2.737        |
| 9                | 15.32          | 2:0       | 014                  |        | 35                     | -              | -            |
| 10               | 15.40          | 3:3       | 019                  | 0.3349 | 26-2                   | 3.785          | 3.283        |
| 11               | 15.87          | 3:2       | 030                  |        | 246                    | -              | -            |
| 12               | 15.93          | 2:0       | 011                  |        | 3-3                    | -              | -            |
| 13               | 16.09          | 2:0       | 012 013              | 0.3499 | 34; 3-4                | 0.065          | 0.065        |
| 14               | 16.25          | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2              | 0.417          | 0.374        |
| 15               | 16.34          | 3:2       | 017                  | 0.3553 | 24-2                   | 1.168          | 1.013        |
| 16               | 16.63          | 3:2       | 024 027              | 0.3616 | 236; 26-3              | 1.388          | 1.204        |
| 17               | 16.92          | 3:2       | 016 032              | 0.3679 | 23-2; 26-4             | 0.911          | 0.790        |
| 19               | 17.34          | 3:1 4:4   | 023 034 054          | 0.3770 | 235; 35-2; 26-26       | 0.208          | 0.173        |
| 20               | 17.51          | 3:1       | 029                  | 0.3807 | 245                    | 0.031          | 0.027        |
| 21               | 17.64          | 3:1       | 026                  | 0.3836 | 25-3                   | 0.593          | 0.514        |
| 22               | 17.71          | 3:1       | 025                  | 0.3851 | 24-3                   | 0.174          | 0.151        |
| 23               | 17.92          | 3:1       | 031                  | 0.3896 | 25-4                   | 0.903          | 0.783        |
| 24               | 17.97          | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2            | 0.256          | 0.222        |
| 25               | 18.36          | 3:1 4:3   | 020 021 033 053      | 0.3992 | 23-3; 234; 34-2; 25-26 | 0.692          | 0.595        |
| 26               | 18.55          | 3:1 4:3   | 022 051              | 0.4033 | 23-4; 24-26            | 0.320          | 0.276        |
| 27               | 18.78          | 4:3       | 045                  | 0.4083 | 236-2                  | 0.379          | 0.290        |
| 28               | 18.93          | 3:0       | 036                  |        | 35-3                   | -              | -            |
| 29               | 19.03          | 4:3       | 046                  | 0.4138 | 23-26                  | 0.088          | 0.068        |
| 30               | 19.18          | 3:0       | 039                  |        | 35-4                   | -              | -            |
| 31               | 19.35          | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35    | 1.092          | 0.836        |
| 32               | 19.52          | 4:2       | 043 049              | 0.4244 | 235-2; 24-25           | 0.512          | 0.391        |
| 33               | 19.64          | 4:2       | 038 047              | 0.4270 | 345; 24-24             | 3.628          | 2.775        |
| 34               | 19.67          | 4:2       | 048 075              | 0.4277 | 245-2; 246-4           | 0.970          | 0.742        |
| 35               | 19.85          | 4:2       | 062 065              |        | 2346; 2356             | -              | -            |
| 36               | 19.93          | 3:0       | 035                  | 0.4334 | 34-3                   | 0.094          | 0.081        |
| 37               | 20.09          | 5:4 4:2   | 104 044              | 0.4368 | 246-26; 23-25          | 0.221          | 0.169        |
| 38               | 20.22          | 3:0 4:2   | 037 042 059          | 0.4397 | 34-4; 23-24; 236-3     | 0.390          | 0.320        |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight Percent | Mole Percent |
|------------------|----------------|-----------|---------------------------------|--------|---|----------------|--------------|
| 39               | 20.56          | 4:2       | 041 064 071 072                 | 0.4471 | 234-2; 236-4; 26-34; 25-35                                  | 0.410          | 0.313        |
| 41               | 20.71          | 5:4       | 068 096                         | 0.4503 | 24-35; 236-26   | 0.131          | 0.090        |
| 42               | 20.83          | 4:2       | 040                             | 0.4529 | 23-23   | 0.074          | 0.056        |
| 43               | 21.06          | 4:1 5:3   | 057 103                         | 0.4579 | 235-3; 246-25   | 0.124          | 0.093        |
| 44               | 21.30          | 4:1 5:3   | 058 067 100                     | 0.4631 | 23-35; 245-3; 246-24  | 0.089          | 0.066        |
| 45               | 21.39          | 4:1       | 063                             | 0.4651 | 235-4   | 0.126          | 0.096        |
| 46               | 21.56          | 4:1 5:3   | 074 094 061                     | 0.4688 | 245-4; 235-26; 2345   | 0.137          | 0.105        |
| 47               | 21.71          | 4:1       | 070                             | 0.4721 | 25-34   | 0.127          | 0.097        |
| 48               | 21.89          | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4760 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 0.504          | 0.384        |
| 49               | 22.13          | 4:1 5:3   | 055 091 121                     | 0.4812 | 234-3; 236-24; 246-35                                       | 0.111          | 0.076        |
| 50               | 22.43          | 4:1       | 056 060                         | 0.4877 | 23-34; 234-4  | 0.113          | 0.087        |
| 51               | 22.66          | 5:3 6:4   | 084 092 155                     | 0.4927 | 236-23; 235-25; 246-246                                     | 0.691          | 0.473        |
| 52               | 22.81          | 5:3       | 089                             | 0.4960 | 234-26  | 0.008          | 0.005        |
| 53               | 22.91          | 5:2       | 090 101                         | 0.4982 | 235-24; 245-25  | 0.165          | 0.113        |
| 54               | 23.11          | 5:2       | 079 099 113                     | 0.5025 | 34-35; 245-24; 236-35                                       | 0.105          | 0.072        |
| 55               | 23.39          | 5:2 6:4   | 119 150                         | 0.5086 | 246-34; 236-246   | 0.020          | 0.013        |
| 56               | 23.47          | 5:2       | 078 083 112 108                 | 0.5103 | 345-3; 235-23; 2356-3; 2346-3                               | 0.073          | 0.050        |
| 57               | 23.70          | 5:2 6:4   | 097 152 086                     | 0.5153 | 245-23; 2356-26; 2345-2                                     | 0.097          | 0.067        |
| 58               | 23.87          | 5:2       | 081 087 117 125 115 145         | 0.5190 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.185          | 0.127        |
| 59               | 24.02          | 5:2       | 116 085 111                     | 0.5223 | 23456; 234-24; 235-35                                       | 0.057          | 0.039        |
| 60               | 24.17          | 6:4       | 120 136                         | 0.5255 | 245-35; 236-236   | 0.070          | 0.043        |
| 61               | 24.28          | 5:2       | 077 110 148                     | 0.5279 | 34-34; 236-34; 235-246                                      | 0.242          | 0.166        |
| 62               | 24.57          | 6:3       | 154                             |        | 245-246   | -              | -            |
| 63               | 24.65          | 5:2       | 082                             | 0.5360 | 234-23  | 0.042          | 0.029        |
| 64               | 24.94          | 6:3       | 151                             | 0.5423 | 2356-25   | 0.155          | 0.096        |
| 65               | 25.06          | 5:1 6:3   | 124 135                         | 0.5449 | 345-25; 235-236   | 0.037          | 0.024        |
| 66               | 25.17          | 6:3       | 144                             | 0.5473 | 2346-25   | 0.049          | 0.030        |
| 67               | 25.21          | 5:1 6:3   | 107 109 147                     | 0.5482 | 234-35; 235-34; 2356-24                                     | 0.081          | 0.054        |
| 68               | 25.29          | 5:1       | 123                             |        | 345-24  | -              | -            |
| 69               | 25.40          | 5:1 6:3   | 106 118 139 149                 | 0.5523 | 2345-3; 245-34; 2346-24; 236-245                            | 0.178          | 0.118        |
| 70               | 25.52          | 6:3       | 140                             |        | 234-246   | -              | -            |
| 71               | 25.80          | 5:1 6:3   | 114 134 143                     |        | 2345-4; 2356-23; 2345-26                                    | -              | -            |
| 72               | 26.01          | 5:1 6:3   | 122 131 133 142                 |        | 345-23; 2346-23; 235-235; 23456-2                           | -              | -            |
| 73               | 26.27          | 6:2       | 146 165 188                     |        | 235-245; 2356-35; 2356-246                                  | -              | -            |
| 74               | 26.39          | 5:1 6:3   | 105 132 161                     | 0.5738 | 234-34; 234-236; 2346-35                                    | 0.088          | 0.056        |
| 75               | 26.55          | 6:2       | 153                             |        | 245-245   | -              | -            |
| 76               | 26.65          | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -              | -            |
| 77               | 27.08          | 6:2       | 141                             |        | 2345-25   | -              | -            |
| 78               | 27.16          | 7:4       | 179                             |        | 2356-236  | -              | -            |
| 79               | 27.37          | 6:2       | 137                             |        | 2345-24   | -              | -            |
| 80               | 27.52          | 6:2 7:4   | 130 176                         |        | 234-235; 2346-236   | -              | -            |
| 82               | 27.72          | 6:2       | 138 163 164                     | 0.6027 | 234-245; 2356-34; 236-345                                   | 0.162          | 0.100        |
| 83               | 27.91          | 6:2       | 158 160 186                     |        | 2346-34; 23456-3; 23456-26                                  | -              | -            |
| 84               | 28.10          | 6:2       | 126 129                         |        | 345-34; 2345-23   | -              | -            |
| 85               | 28.45          | 7:3       | 166 178                         |        | 23456-4; 2356-235   | -              | -            |
| 87               | 28.75          | 7:3       | 175 159                         |        | 2346-235; 2345-35   | -              | -            |
| 88               | 28.90          | 7:3       | 182 187                         |        | 2345-246; 2356-245  | -              | -            |
| 89               | 29.03          | 6:2       | 128 162                         |        | 234-234; 235-345  | -              | -            |
| 90               | 29.20          | 7:3       | 183                             |        | 2346-245  | -              | -            |
| 91               | 29.46          | 6:1       | 167                             |        | 245-345   | -              | -            |
| 92               | 29.80          | 7:3       | 185                             |        | 23456-25  | -              | -            |
| 93               | 30.17          | 7:3       | 174 181                         |        | 2345-236; 23456-24  | -              | -            |
| 94               | 30.43          | 7:3       | 177                             |        | 2356-234  | -              | -            |
| 95               | 30.74          | 6:1 7:3   | 156 171                         |        | 2345-34; 2346-234   | -              | -            |
| 96               | 30.99          | 8:4       | 157 202                         |        | 234-345; 2356-2356  | -              | -            |
| 98               | 31.16          | 7:3       | 173                             |        | 23456-23  | -              | -            |
| 99               | 31.52          | 8:4       | 201                             |        | 2346-2356   | -              | -            |
| 100              | 31.76          | 7:2       | 172 204                         |        | 2345-235; 23456-246   | -              | -            |
| 101              | 32.06          | 8:4       | 192 197                         |        | 23456-35; 2346-2346   | -              | -            |
| 102              | 32.23          | 7:2       | 180                             |        | 2345-245  | -              | -            |
| 103              | 32.48          | 7:2       | 193                             |        | 2356-345  | -              | -            |
| 104              | 32.79          | 7:2       | 191                             |        | 2346-345  | -              | -            |
| 105              | 33.15          | 8:4       | 200 169                         |        | 23456-236; 345-345  | -              | -            |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|-----|------------------------|----------------|--------------|
| 106              | 34.28          | 7:2       | <b>170</b>           |     | 2345-234               | -              | -            |
| 107              | 34.54          | 7:2       | <b>190</b>           |     | 23456-34               | -              | -            |
| 108              | 35.39          | 8:3       | <b>198</b>           |     | 23456-235              | -              | -            |
| 109              | 35.63          | 8:3       | <b>199</b>           |     | 2345-2356              | -              | -            |
| 110              | 36.15          | 8:3       | <b>196 203</b>       |     | 2345-2346; 23456-245   | -              | -            |
| 111              | 37.29          | 7:1       | <b>189</b>           |     | 2345-345               | -              | -            |
| 112              | 38.84          | 8:3       | <b>195</b>           |     | 23456-234              | -              | -            |
| 113              | 39.35          | 9:4       | <b>208</b>           |     | 23456-2356             | -              | -            |
| 114              | 40.26          | 9:4       | <b>207</b>           |     | 23456-2346             | -              | -            |
| 115              | 41.66          | 8:2       | <b>194</b>           |     | 2345-2345              | -              | -            |
| 116              | 42.54          | 8:2       | <b>205</b>           |     | 23456-345              | -              | -            |
| 117              | 47.61          | 9:3       | <b>206</b>           |     | 23456-2345             | -              | -            |
| 118              | 53.55          | 10:4      | <b>209</b>           |     | 23456-23456            | -              | -            |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 240 ng/L

Total Nanomoles = 1.075

Average Molecular Weight = 223.3

Number of Calibrated Peaks Found = 60

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <b>77</b>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <b>122</b>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105( <b>200</b> ,169)                                    | <i>169</i>                  |

<sup>5</sup>

**Note: This is not a NYSDOH ELAP certified method.**

# SAMPLE GC INJECTION LOG (GC24)



Sample Set Name: GC24\_060315a  
Project Name: GC24\_Jan\_2015  
Sample Set Start Date: 01/20/2015 14:53:55  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

Sample Set Report Summary

|    | Sample ID                 | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|----|---------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1  | HEXANE BLANK              | Unknown     | 150120B05   | 1.000         | 1.00     | 1              | 01/20/2015 14:53:55 |
| 2  | ICAL 6.25 ng/mL           | Unknown     | ICAL0120A   | 1.000         | 1.00     | 1              | 01/20/2015 15:59:42 |
| 3  | ICAL 12.5 ng/mL           | Unknown     | ICAL0120B   | 1.000         | 1.00     | 1              | 01/20/2015 17:05:30 |
| 4  | ICAL 125 ng/mL            | Unknown     | ICAL0120C   | 1.000         | 1.00     | 1              | 01/20/2015 18:11:16 |
| 5  | ICAL 314 ng/mL            | Unknown     | ICAL0120D   | 1.000         | 1.00     | 1              | 01/20/2015 19:16:50 |
| 6  | ICAL 627 ng/mL            | Unknown     | ICAL0120E   | 1.000         | 1.00     | 1              | 01/20/2015 20:22:37 |
| 7  | ICAL 1254 ng/mL           | Unknown     | ICAL0120F   | 1.000         | 1.00     | 1              | 01/20/2015 21:28:26 |
| 8  | HEXANE BLANK              | Unknown     | 150120B06   | 1.000         | 1.00     | 1              | 01/20/2015 22:34:28 |
| 9  | SUP CONG STD 200/5 ng/ml  | Unknown     | SC0120A     | 1.000         | 1.00     | 1              | 01/20/2015 23:40:14 |
| 10 | Surr Std (207) 2.0 ng/mL  | Unknown     | SS0120A     | 1.000         | 1.00     | 1              | 01/21/2015 01:51:45 |
| 11 | Surr Std (207) 20.0 ng/mL | Unknown     | SS0120B     | 1.000         | 1.00     | 1              | 01/21/2015 02:57:30 |
| 12 | HEXANE BLANK              | Unknown     | 150120B07   | 1.000         | 1.00     | 1              | 01/21/2015 04:03:16 |
| 13 | CCC Std 122 ng/mL         | Unknown     | CCCS0120A   | 1.000         | 1.00     | 1              | 01/21/2015 05:09:03 |
| 14 | HEXANE BLANK              | Unknown     | 150604B02   | 1.000         | 1.00     | 1              | 06/04/2015 14:59:23 |
| 15 | Surr TCMX/DCBP 5/50 ppb   | Unknown     | TD0604A     | 1.000         | 1.00     | 1              | 06/04/2015 16:04:54 |



Sample Set Name: GC24\_061115a  
Project Name: GC24\_Jan\_2015  
Sample Set Start Date: 06/11/2015 16:44:01  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

**Sample Set Report Summary**

|   | Sample ID              | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK           | Unknown     | 150611B02   | 1.000         | 1.00     | 1              | 06/11/2015 16:44:01 |
| 2 | CCC Std 122 ng/mL      | Unknown     | CCCS0611B   | 1.000         | 1.00     | 1              | 06/11/2015 20:01:03 |
| 3 | FRS-FDBL-T150603120634 | Unknown     | AS11827RR1  | 1.040         | 5.00     | 5              | 06/11/2015 21:16:01 |
| 4 | CCC Std 122 ng/mL      | Unknown     | CCCS0611C   | 1.000         | 1.00     | 1              | 06/11/2015 22:21:36 |



Sample Set Name: GC24\_061215c  
Project Name: GC24\_Jan\_2015  
Sample Set Start Date: 06/12/2015 17:58:40  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

Sample Set Report Summary

|   | Sample ID         | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|-------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK      | Unknown     | 150612B02   | 1.000         | 1.00     | 1              | 06/12/2015 17:58:40 |
| 2 | CCC Std 122 ng/mL | Unknown     | CCCS0612A   | 1.000         | 1.00     | 1              | 06/12/2015 19:04:27 |
| 3 | LAB CONTROL SPIKE | Unknown     | AS11828LRR2 | 1.000         | 5.00     | 5              | 06/12/2015 22:57:40 |
| 4 | CCC Std 122 ng/mL | Unknown     | CCCS0612B   | 1.000         | 1.00     | 1              | 06/13/2015 00:03:23 |
| 5 | METHOD BLANK      | Unknown     | AS13069B    | 1.000         | 5.00     | 5              | 06/13/2015 01:09:09 |
| 6 | LAB CONTROL SPIKE | Unknown     | AS13069L    | 1.000         | 5.00     | 5              | 06/13/2015 02:14:51 |
| 7 | ZZZZZ             | Unknown     | ZZZZZ       | 1.060         | 5.00     | 5              | 06/13/2015 03:20:34 |
| 8 | CCC Std 122 ng/mL | Unknown     | CCCS0612C   | 1.000         | 1.00     | 1              | 06/13/2015 04:26:15 |



Sample Set Name: GC24\_061015d  
Project Name: GC24\_Jan\_2015  
Sample Set Start Date: 06/10/2015 16:04:12  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

**Sample Set Report Summary**

|   | Sample ID              | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK           | Unknown     | 150610B02   | 1.000         | 1.00     | 1              | 06/10/2015 16:04:12 |
| 2 | CCC Std 122 ng/mL      | Unknown     | CCCS0610A   | 1.000         | 1.00     | 1              | 06/10/2015 17:09:59 |
| 3 | FRS-STWA-T150603120444 | Unknown     | AS11828     | 1.040         | 5.00     | 5              | 06/10/2015 20:27:14 |
| 4 | CCC Std 122 ng/mL      | Unknown     | CCCS0610B   | 1.000         | 1.00     | 1              | 06/10/2015 22:17:24 |
| 5 | METHOD BLANK           | Unknown     | AS11828BRR1 | 1.000         | 5.00     | 5              | 06/10/2015 23:23:06 |
| 6 | CCC Std 122 ng/mL      | Unknown     | CCCS0610C   | 1.000         | 1.00     | 1              | 06/11/2015 00:28:48 |



Project Name: GC24\_Jan\_2015  
Sample Set Name: GC24\_061215c  
Date Printed: 6/17/2015

**Operating Conditions Gas Chromatography**

User Name: Amie Hamilton Injection Method: Splitless  
Sample Size: 0.5 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 300 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 2.5 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 4.3 °C/min  
Final Temperature: 220 °C Hold: 35.1 min

**Column Information**

Column ID: Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm  
Material: Fused Silica  
Length: 30 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 23.5 Make-up Flow: 70 mL/min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC24 Detector Type: ECD Detector Range: 4

# SAMPLE GC INJECTION LOG (GC30)



Sample Set Name: GC30\_CC\_052015  
Project Name: GC30\_Jan\_2015  
Sample Set Start Date: 05/20/2015 23:04:57  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

Sample Set Report Summary

|   | Sample ID              | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK           | Unknown     | 150520B05   | 1.000         | 1.00     | 1              | 05/20/2015 23:04:57 |
| 2 | IUPAC 4-10 0.100 ng/mL | Unknown     | ICBZ0520A   | 1.000         | 1.00     | 1              | 05/20/2015 23:52:11 |
| 3 | IUPAC 4-10 0.500 ng/mL | Unknown     | ICBZ0520B   | 1.000         | 1.00     | 1              | 05/21/2015 00:39:28 |
| 4 | IUPAC 4-10 5.0 ng/mL   | Unknown     | ICBZ0520C   | 1.000         | 1.00     | 1              | 05/21/2015 01:26:42 |
| 5 | IUPAC 4-10 25.0 ng/mL  | Unknown     | ICBZ0520D   | 1.000         | 1.00     | 1              | 05/21/2015 02:13:57 |
| 6 | IUPAC 4-10 50.0 ng/mL  | Unknown     | ICBZ0520E   | 1.000         | 1.00     | 1              | 05/21/2015 03:01:06 |
| 7 | HEXANE BLANK           | Unknown     | 150520B06   | 1.000         | 1.00     | 1              | 05/21/2015 03:48:18 |
| 8 | CCCS Std 25.0 ng/mL    | Unknown     | CCCS0520AA  | 1.000         | 1.00     | 1              | 05/21/2015 04:35:25 |



Sample Set Name: GC30\_061115  
Project Name: GC30\_Jan\_2015  
Sample Set Start Date: 06/11/2015 17:12:46  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

**Sample Set Report Summary**

|   | Sample ID              | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK           | Unknown     | 150611B03   | 1.000         | 1.00     | 1              | 06/11/2015 17:12:46 |
| 2 | CCCS Std 25.0 ng/mL    | Unknown     | CCCS0611AA  | 1.000         | 1.00     | 1              | 06/11/2015 18:00:15 |
| 3 | FRS-FDBL-T150603120634 | Unknown     | AS11827RR2  | 1.040         | 5.00     | 5              | 06/11/2015 18:47:48 |
| 4 | CCCS Std 25.0 ng/mL    | Unknown     | CCCS0611AB  | 1.000         | 1.00     | 1              | 06/11/2015 19:35:13 |



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Sample Set Name: GC30\_061015  
Project Name: GC30\_Jan\_2015  
Sample Set Start Date: 06/10/2015 16:35:47  
Date Printed: 6/23/2015  
Report Name: CSGB\_SSReport (Lims)

**Sample Set Report Summary**

|   | Sample ID              | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired       |
|---|------------------------|-------------|-------------|---------------|----------|----------------|---------------------|
| 1 | HEXANE BLANK           | Unknown     | 150610B03   | 1.000         | 1.00     | 1              | 06/10/2015 16:35:47 |
| 2 | CCCS Std 25.0 ng/mL    | Unknown     | CCCS0610AA  | 1.000         | 1.00     | 1              | 06/10/2015 17:23:18 |
| 3 | METHOD BLANK           | Unknown     | AS11828BRR2 | 1.000         | 5.00     | 5              | 06/10/2015 18:10:54 |
| 4 | LAB CONTROL SPIKE      | Unknown     | AS11828LRR3 | 1.000         | 5.00     | 5              | 06/10/2015 18:58:25 |
| 5 | FRS-STWA-T150603120444 | Unknown     | AS11828RR1  | 1.040         | 5.00     | 5              | 06/10/2015 19:46:00 |
| 6 | CCCS Std 25.0 ng/mL    | Unknown     | CCCS0610AB  | 1.000         | 1.00     | 1              | 06/10/2015 20:33:30 |



Project Name: GC30\_Jan\_2015  
Sample Set Name: GC30\_061115  
Date Printed: 6/17/2015

**Operating Conditions Gas Chromatography**

User Name: Amie Hamilton Injection Method: Splitless  
Sample Size: 1.0 uL Column Type: Capillary

**Temperature Information**

Column Temperature: Program  
Injector Temperature: 275 °C  
Detector Temperature: 300 °C

**Column Temperature Information**

Initial Temperature: 50 °C Hold: 0 min  
Temperature Program: 15 °C/min  
Intermediate Temperature: 150 °C  
Temperature Program: 0.8 °C/min  
Final Temperature: 164 °C Hold: 12 min

**Column Information**

Column ID: Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm  
Material: Fused Silica  
Length: 50 meter  
Internal Diameter: 0.25 mm  
Carrier Gas: Helium Make-up Gas: Nitrogen  
Flow Pressure: 26.0 psi Make-up Flow: 70 mL/ min  
Split Ratio: None

**Detector Information**

Detector Name: Detector 1 GC30 Detector Type: ECD Detector Range: 3

# STANDARDS SUMMARY TABLE (GC24)

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Sample Set Name: GC24\_LLCC\_012015  
 Project Name: GC24\_Jan\_2015  
 Sample Set Start Date: 1/20/2015 10:19:07 AM EST  
 Current Date: 1/21/2015  
 Report Name: CSGB\_SSReport

**Sample Set Report Summary**

|    | Sample ID                 | Sample Type | Sample Name | Sample Amount | Dilution | Extract Volume | Date Acquired             |
|----|---------------------------|-------------|-------------|---------------|----------|----------------|---------------------------|
| 1  | HEXANE BLANK              | Unknown     | 150120B05   | 1.000         | 1.00     | 1              | 1/20/2015 2:53:55 PM EST  |
| 2  | ICAL 6.25 ng/mL           | Standard    | ICAL0120A   | 1.000         | 1.00     | 1              | 1/20/2015 3:59:42 PM EST  |
| 3  | ICAL 12.5 ng/mL           | Standard    | ICAL0120B   | 1.000         | 1.00     | 1              | 1/20/2015 5:05:30 PM EST  |
| 4  | ICAL 125 ng/mL            | Standard    | ICAL0120C   | 1.000         | 1.00     | 1              | 1/20/2015 6:11:16 PM EST  |
| 5  | ICAL 314 ng/mL            | Standard    | ICAL0120D   | 1.000         | 1.00     | 1              | 1/20/2015 7:16:50 PM EST  |
| 6  | ICAL 627 ng/mL            | Standard    | ICAL0120E   | 1.000         | 1.00     | 1              | 1/20/2015 8:22:37 PM EST  |
| 7  | ICAL 1254 ng/mL           | Standard    | ICAL0120F   | 1.000         | 1.00     | 1              | 1/20/2015 9:28:26 PM EST  |
| 8  | HEXANE BLANK              | Unknown     | 150120B06   | 1.000         | 1.00     | 1              | 1/20/2015 10:34:28 PM EST |
| 9  | SUP CONG STD 200/5 ng/ml  | Standard    | SC0120A     | 1.000         | 1.00     | 1              | 1/20/2015 11:40:14 PM EST |
| 10 | Surr TCMX/DCBP 5/50 ppb   | Standard    | TD0120A     | 1.000         | 1.00     | 1              | 1/21/2015 12:45:59 AM EST |
| 11 | Surr Std (207) 2.0 ng/mL  | Standard    | SS0120A     | 1.000         | 1.00     | 1              | 1/21/2015 1:51:45 AM EST  |
| 12 | Surr Std (207) 20.0 ng/mL | Standard    | SS0120B     | 1.000         | 1.00     | 1              | 1/21/2015 2:57:30 AM EST  |
| 13 | HEXANE BLANK              | Unknown     | 150120B07   | 1.000         | 1.00     | 1              | 1/21/2015 4:03:16 AM EST  |
| 14 | CCC Std 122 ng/mL         | Unknown     | CCCS0120A   | 1.000         | 1.00     | 1              | 1/21/2015 5:09:03 AM EST  |

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Sample Set Name: GC24\_LLCC\_012015  
Project Name: GC24\_Jan\_2015  
Sample Set Start Date: 1/20/2015 10:19:07 AM EST  
Current Date: 1/21/2015  
Report Name: CSGB\_SumRpt\_OCNArea

**ICAL OCN Area Summary Report**

|      | Sample Name | Sample ID                | Date Acquired             | OCN Area |
|------|-------------|--------------------------|---------------------------|----------|
| 1    | ICAL0120A   | ICAL 6.25 ng/mL          | 1/20/2015 3:59:42 PM EST  | 55691    |
| 2    | ICAL0120B   | ICAL 12.5 ng/mL          | 1/20/2015 5:05:30 PM EST  | 57148    |
| 3    | ICAL0120C   | ICAL 125 ng/mL           | 1/20/2015 6:11:16 PM EST  | 59673    |
| 4    | ICAL0120D   | ICAL 314 ng/mL           | 1/20/2015 7:16:50 PM EST  | 57344    |
| 5    | ICAL0120E   | ICAL 627 ng/mL           | 1/20/2015 8:22:37 PM EST  | 57643    |
| 6    | ICAL0120F   | ICAL 1254 ng/mL          | 1/20/2015 9:28:26 PM EST  | 58210    |
| 7    | SC0120A     | SUP CONG STD 200/5 ng/ml | 1/20/2015 11:40:14 PM EST | 56199    |
| Mean |             |                          |                           | 57415    |

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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_24             | Date Calibrated: | 1/21/2015 3:58:02 PM EST |
| Sample Set Name:   | GC24_LLCC_012015          | Method Report:   | CSGB CCSum by RF         |
| Sample Set Date:   | 1/20/2015 10:19:07 AM EST | User Name:       | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LL1X_012015          |                  |                          |

**Calibration Component Summary Table**  
**Component Summary For RF**

|           | Sample Name | 2 (1)    | 3 (2)    | 4 (3)    | 5 (4,10) | 6 (7,9)  | 7 (6)    | 8 (5,8)  | 9 (14)   | 10 (19)  | 11 (30)  | 12 (11)  |
|-----------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1         | ICAL0120A   | 0.025155 |          | 0.016396 | 0.071781 | 0.459808 | 0.244895 | 0.120726 |          |          |          |          |
| 2         | ICAL0120B   | 0.032002 |          | 0.015002 | 0.073041 | 0.476198 | 0.249614 | 0.127749 |          | 0.337401 |          |          |
| 3         | ICAL0120C   | 0.028309 |          | 0.016848 | 0.062650 | 0.429903 | 0.220284 | 0.113140 |          | 0.333298 |          |          |
| 4         | ICAL0120D   | 0.028612 |          | 0.015496 | 0.061143 | 0.414144 | 0.205474 | 0.107166 |          | 0.292206 |          |          |
| 5         | ICAL0120E   |          |          |          | 0.060748 |          |          |          |          | 0.305487 |          |          |
| 6         | ICAL0120F   |          |          |          |          |          |          |          |          | 0.303018 |          |          |
| 7         | SC0120A     |          | 0.004871 |          |          |          |          |          | 0.167863 |          | 0.584224 | 0.059139 |
| Mean      |             | 0.029    | 0.005    | 0.016    | 0.066    | 0.445    | 0.230    | 0.117    | 0.168    | 0.314    | 0.584    | 0.059    |
| Std. Dev. |             | 0.003    |          | 0.001    | 0.006    | 0.028    | 0.021    | 0.009    |          | 0.020    |          |          |
| % RSD     |             | 9.81     |          | 5.26     | 9.15     | 6.32     | 9.06     | 7.65     |          | 6.34     |          |          |

**Calibration Component Summary Table**  
**Component Summary For RF**

|           | 13 (12,13) | 14 (15,18) | 15 (17)  | 16 (24,27) | 17 (16,32) | 19 (23,34,54) | 20 (29)  | 21 (26)  | 22 (25)  | 23 (31)  | 24 (28,50) |
|-----------|------------|------------|----------|------------|------------|---------------|----------|----------|----------|----------|------------|
| 1         |            | 0.440325   | 0.150092 | 0.499058   | 0.254208   |               |          | 0.349500 | 0.502622 | 0.508810 | 0.554239   |
| 2         | 0.356193   | 0.392864   | 0.158797 | 0.404183   | 0.307648   |               | 0.343533 | 0.368512 | 0.545994 | 0.523990 | 0.631469   |
| 3         | 0.357231   | 0.370459   | 0.160865 | 0.480208   | 0.292548   |               | 0.340371 | 0.354521 | 0.461409 | 0.486598 | 0.531284   |
| 4         | 0.307551   | 0.353109   | 0.162337 | 0.492719   | 0.286836   |               | 0.367057 | 0.347641 | 0.426689 | 0.448433 | 0.510069   |
| 5         |            |            |          | 0.495094   |            |               |          |          |          |          |            |
| 6         |            |            |          | 0.485919   |            |               |          |          |          |          |            |
| 7         |            |            |          |            |            | 0.358059      |          |          |          |          |            |
| Mean      | 0.340      | 0.389      | 0.158    | 0.476      | 0.285      | 0.358         | 0.350    | 0.355    | 0.484    | 0.492    | 0.557      |
| Std. Dev. | 0.028      | 0.038      | 0.005    | 0.036      | 0.023      |               | 0.015    | 0.009    | 0.052    | 0.033    | 0.053      |
| % RSD     | 8.34       | 9.71       | 3.47     | 7.54       | 7.89       |               | 4.16     | 2.66     | 10.66    | 6.67     | 9.51       |

**Calibration Component Summary Table**  
**Component Summary For RF**

|   | 25 (20,21,33,53) | 26 (22,51) | 27 (45)  | 28 (36)  | 29 (46)  | 30 (39)  | 31 (52,69,73) | 32 (43,49) | 33 (38,47) | 34 (48,75) | 35 (62,65) |
|---|------------------|------------|----------|----------|----------|----------|---------------|------------|------------|------------|------------|
| 1 | 0.347385         | 0.373296   | 0.433506 |          | 0.359833 |          | 0.381965      | 0.719495   | 0.842124   | 0.646461   |            |
| 2 | 0.411520         | 0.434826   | 0.501734 |          | 0.426421 |          | 0.380132      | 0.803262   | 0.830680   | 0.633253   |            |
| 3 | 0.407790         | 0.369699   | 0.412604 |          | 0.362771 |          | 0.347071      | 0.673114   | 0.955812   | 0.653237   |            |
| 4 | 0.392745         | 0.361349   | 0.413277 |          | 0.369140 |          | 0.328849      | 0.644034   | 0.902062   | 0.625029   |            |
| 5 |                  |            |          |          |          |          |               |            |            |            |            |
| 6 |                  |            |          |          |          |          |               |            |            |            |            |
| 7 |                  |            |          | 0.289430 |          | 0.285076 |               |            |            |            | 0.701645   |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 25 (20,21,33,53) | 26 (22,51) | 27 (45) | 28 (36) | 29 (46) | 30 (39) | 31 (52,69,73) | 32 (43,49) | 33 (38,47) | 34 (48,75) | 35 (62,65) |
|-----------|------------------|------------|---------|---------|---------|---------|---------------|------------|------------|------------|------------|
| Mean      | 0.390            | 0.385      | 0.440   | 0.289   | 0.380   | 0.285   | 0.360         | 0.710      | 0.883      | 0.639      | 0.702      |
| Std. Dev. | 0.029            | 0.034      | 0.042   |         | 0.031   |         | 0.026         | 0.070      | 0.058      | 0.013      |            |
| % RSD     | 7.56             | 8.77       | 9.56    |         | 8.30    |         | 7.23          | 9.79       | 6.56       | 1.99       |            |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 36 (35)  | 37 (104,44) | 38 (37,42,59) | 39 (41,64,71,72) | 41 (68,96) | 42 (40)  | 43 (57,103) | 44 (58,67,100) | 45 (63)  | 46 (74,94,61) |
|-----------|----------|-------------|---------------|------------------|------------|----------|-------------|----------------|----------|---------------|
| 1         |          | 0.583525    | 0.366998      | 0.671393         |            | 0.573705 |             |                | 0.611656 | 1.111390      |
| 2         |          | 0.574658    | 0.406045      | 0.746932         |            | 0.559565 |             | 0.750404       | 0.648502 | 1.135442      |
| 3         |          | 0.526694    | 0.403658      | 0.658586         |            | 0.505110 |             | 0.794929       | 0.689729 | 0.971658      |
| 4         |          | 0.496296    | 0.388370      | 0.623832         |            | 0.508857 |             | 0.713559       | 0.657952 | 0.927790      |
| 5         |          |             |               |                  |            |          |             |                |          |               |
| 6         |          |             |               |                  |            |          |             |                |          |               |
| 7         | 0.272729 |             |               |                  | 0.409248   |          | 0.555619    |                |          |               |
| Mean      | 0.273    | 0.545       | 0.391         | 0.675            | 0.409      | 0.537    | 0.556       | 0.753          | 0.652    | 1.037         |
| Std. Dev. |          | 0.041       | 0.018         | 0.052            |            | 0.035    |             | 0.041          | 0.032    | 0.102         |
| % RSD     |          | 7.54        | 4.59          | 7.68             |            | 6.51     |             | 5.41           | 4.93     | 9.87          |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 47 (70)  | 48 (66,76,98,80,93,95,102,88) | 49 (55,91,121) | 50 (56,60) | 51 (84,92,155) | 52 (89)  | 53 (90,101) | 54 (79,99,113) | 55 (119,150) |
|-----------|----------|-------------------------------|----------------|------------|----------------|----------|-------------|----------------|--------------|
| 1         | 0.817605 |                               | 0.565679       | 0.522318   | 0.806650       | 0.320457 |             | 0.625983       | 0.862652     |
| 2         | 0.871285 |                               | 0.603197       | 0.583434   | 0.846659       | 0.282549 | 0.518364    | 0.757468       | 0.982455     |
| 3         | 0.785891 |                               | 0.516590       | 0.543279   | 0.753628       | 0.298074 | 0.565138    | 0.655966       | 0.997397     |
| 4         | 0.741571 |                               | 0.492840       | 0.517053   | 0.723057       | 0.281556 | 0.485317    | 0.637436       | 0.957590     |
| 5         |          |                               |                |            |                |          |             |                |              |
| 6         |          |                               |                |            |                |          |             |                |              |
| 7         |          |                               |                |            |                |          |             |                |              |
| Mean      | 0.804    |                               | 0.545          | 0.542      | 0.782          | 0.296    | 0.523       | 0.669          | 0.950        |
| Std. Dev. | 0.055    |                               | 0.049          | 0.030      | 0.055          | 0.018    | 0.040       | 0.060          | 0.061        |
| % RSD     | 6.79     |                               | 9.08           | 5.57       | 7.03           | 6.15     | 7.67        | 8.98           | 6.37         |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 56 (78,83,112,108) | 57 (97,152,86) | 58 (81,87,117,125,115,145) | 59 (116,85,111) | 60 (120,136) | 61 (77,110,148) | 62 (154) | 63 (82)  |
|-----------|--------------------|----------------|----------------------------|-----------------|--------------|-----------------|----------|----------|
| 1         |                    | 0.848309       |                            | 0.819199        | 0.899273     | 0.798256        | 0.670941 | 0.729174 |
| 2         | 0.562081           | 0.894237       |                            | 0.816503        | 0.986477     | 0.759518        | 0.663845 | 0.812560 |
| 3         | 0.588707           | 0.811694       |                            | 0.699037        | 0.819424     | 0.707218        | 0.626522 | 0.749346 |
| 4         | 0.529747           | 0.799700       |                            | 0.682952        | 0.824904     | 0.702814        | 0.608520 | 0.719906 |
| 5         |                    |                |                            |                 |              |                 |          |          |
| 6         |                    |                |                            |                 |              |                 |          |          |
| 7         |                    |                |                            |                 |              |                 | 0.641948 |          |
| Mean      | 0.560              | 0.838          |                            | 0.754           | 0.883        | 0.742           | 0.642    | 0.753    |
| Std. Dev. | 0.030              | 0.043          |                            | 0.074           | 0.078        | 0.046           | 0.030    | 0.042    |
| % RSD     | 5.27               | 5.07           |                            | 9.75            | 8.87         | 6.14            | 4.65     | 5.54     |

**Calibration Component Summary Table  
Component Summary For RF**

|           | 64 (151) | 65 (124,135) | 66 (144) | 67 (107,109,147) | 68 (123) | 69 (106,118,139,149) | 70 (140) | 71 (114,134,143) | 72 (122,131,133,142) |
|-----------|----------|--------------|----------|------------------|----------|----------------------|----------|------------------|----------------------|
| 1         | 0.728526 | 1.273536     | 0.431922 |                  |          | 0.936399             |          | 0.682321         |                      |
| 2         | 0.752475 | 1.211761     | 0.363832 | 0.591004         |          | 0.932564             |          | 0.631142         | 1.136036             |
| 3         | 0.721208 | 1.223315     | 0.391088 | 0.646857         |          | 0.810593             |          | 0.725474         | 0.979958             |
| 4         | 0.696010 | 1.159700     | 0.408578 | 0.552784         |          | 0.761237             |          | 0.724309         | 1.059620             |
| 5         |          |              |          |                  |          |                      |          |                  |                      |
| 6         |          |              |          |                  |          |                      |          |                  |                      |
| 7         |          |              |          |                  | 0.726710 |                      | 0.751325 |                  |                      |
| Mean      | 0.725    | 1.217        | 0.399    | 0.597            | 0.727    | 0.860                | 0.751    | 0.691            | 1.059                |
| Std. Dev. | 0.023    | 0.047        | 0.029    | 0.047            |          | 0.088                |          | 0.045            | 0.078                |
| % RSD     | 3.21     | 3.84         | 7.20     | 7.93             |          | 10.24                |          | 6.45             | 7.37                 |

**Calibration Component Summary Table  
Component Summary For RF**

|           | 73 (146,165,188) | 74 (105,132,161) | 75 (153) | 76 (127,168,184) | 77 (141) | 78 (179) | 79 (137) | 80 (130,176) | 82 (138,163,164) |
|-----------|------------------|------------------|----------|------------------|----------|----------|----------|--------------|------------------|
| 1         | 0.746052         | 0.954692         | 1.075617 |                  | 0.468487 | 0.619707 |          | 1.590451     | 1.026292         |
| 2         | 0.770931         | 1.102518         | 1.197612 |                  | 0.509306 | 0.710948 | 0.221094 | 1.337377     | 1.027276         |
| 3         | 0.733436         | 1.009687         | 1.010531 |                  | 0.547999 | 0.758745 | 0.198637 | 1.343538     | 0.910584         |
| 4         | 0.779032         | 1.008346         | 0.956729 |                  | 0.556424 | 0.714197 | 0.239807 | 1.344272     | 0.874387         |
| 5         |                  |                  |          |                  |          |          |          |              |                  |
| 6         |                  |                  |          |                  |          |          |          |              |                  |
| 7         |                  |                  |          | 0.659907         |          |          |          |              |                  |
| Mean      | 0.757            | 1.019            | 1.060    | 0.660            | 0.521    | 0.701    | 0.220    | 1.404        | 0.960            |
| Std. Dev. | 0.021            | 0.061            | 0.104    |                  | 0.040    | 0.058    | 0.021    | 0.124        | 0.079            |
| % RSD     | 2.81             | 6.03             | 9.79     |                  | 7.75     | 8.33     | 9.38     | 8.86         | 8.23             |

**Calibration Component Summary Table  
Component Summary For RF**

|           | 83 (158,160,186) | 84 (126,129) | 85 (166,178) | 87 (175,159) | 88 (182,187) | 89 (128,162) | 90 (183) | 91 (167) | 92 (185) | 93 (174,181) |
|-----------|------------------|--------------|--------------|--------------|--------------|--------------|----------|----------|----------|--------------|
| 1         | 0.828086         |              | 0.444481     |              | 1.071022     |              | 0.728745 |          | 1.105349 | 0.943796     |
| 2         | 0.776534         | 2.305063     | 0.488379     | 0.493133     | 1.062658     | 1.122002     | 0.889862 | 0.451099 | 1.135841 | 0.942223     |
| 3         | 0.846770         | 2.640320     | 0.429831     | 0.435311     | 0.903950     | 1.048113     | 0.811555 | 0.535010 | 1.167459 | 0.875425     |
| 4         | 0.871630         | 2.352538     | 0.443843     | 0.441703     | 0.861032     | 1.125108     | 0.808081 | 0.562792 | 1.159835 | 0.838315     |
| 5         |                  |              |              |              |              |              |          |          |          |              |
| 6         |                  |              |              |              |              |              |          |          |          |              |
| 7         |                  |              |              |              |              |              |          |          |          |              |
| Mean      | 0.831            | 2.433        | 0.452        | 0.457        | 0.975        | 1.098        | 0.810    | 0.516    | 1.142    | 0.900        |
| Std. Dev. | 0.040            | 0.181        | 0.025        | 0.032        | 0.108        | 0.044        | 0.066    | 0.058    | 0.028    | 0.052        |
| % RSD     | 4.85             | 7.46         | 5.63         | 6.94         | 11.07        | 3.97         | 8.13     | 11.26    | 2.45     | 5.78         |

**Calibration Component Summary Table  
Component Summary For RF**

|   | 94 (177) | 95 (156,171) | 96 (157,202) | 98 (173) | 99 (201) | 100 (172,204) | 101 (192,197) | 102 (180) | 103 (193) | 104 (191) |
|---|----------|--------------|--------------|----------|----------|---------------|---------------|-----------|-----------|-----------|
| 1 | 0.727732 | 0.873843     | 5.258898     |          | 0.862172 | 0.577019      |               | 1.092771  | 0.710921  |           |
| 2 | 0.772924 | 0.853835     | 5.988693     | 0.825292 | 0.815557 | 0.565950      | 0.446444      | 1.122257  | 0.595889  | 0.718631  |
| 3 | 0.758671 | 0.718018     | 5.609296     | 0.754670 | 0.743732 | 0.672237      | 0.415451      | 1.010764  | 0.624284  | 0.663380  |
| 4 | 0.733986 | 0.758019     | 5.403264     | 0.830553 | 0.745213 | 0.666160      | 0.429552      | 0.971443  | 0.657662  | 0.656988  |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 94 (177) | 95 (156,171) | 96 (157,202) | 98 (173) | 99 (201) | 100 (172,204) | 101 (192,197) | 102 (180) | 103 (193) | 104 (191) |
|-----------|----------|--------------|--------------|----------|----------|---------------|---------------|-----------|-----------|-----------|
| 5         |          |              |              |          |          |               |               |           |           |           |
| 6         |          |              |              |          |          |               |               |           |           |           |
| 7         |          |              |              |          |          |               |               |           |           |           |
| Mean      | 0.748    | 0.801        | 5.565        | 0.804    | 0.792    | 0.620         | 0.430         | 1.049     | 0.647     | 0.680     |
| Std. Dev. | 0.021    | 0.075        | 0.317        | 0.042    | 0.058    | 0.057         | 0.016         | 0.070     | 0.049     | 0.034     |
| % RSD     | 2.83     | 9.35         | 5.70         | 5.27     | 7.29     | 9.13          | 3.60          | 6.68      | 7.64      | 4.99      |

**Calibration Component Summary Table**

**Component Summary For RF**

|           | 105 (200,169) | 106 (170) | 107 (190) | 108 (198) | 109 (199) | 110 (196,203) | 111 (189) | 112 (195) | 113 (208) | 114 (207) | 115 (194) |
|-----------|---------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 1         | 0.703294      | 1.655601  | 1.046053  |           | 0.538298  | 0.709401      |           | 1.729301  |           |           | 1.116610  |
| 2         | 0.729238      | 1.616334  | 0.989702  | 1.184732  | 0.559584  | 0.679628      | 1.403545  | 1.422985  | 0.517530  | 0.876111  | 1.236502  |
| 3         | 0.818811      | 1.481029  | 0.996046  | 0.978780  | 0.553439  | 0.633408      | 1.348358  | 1.618715  | 0.559000  | 0.820152  | 1.352342  |
| 4         | 0.831213      | 1.505439  | 1.198771  | 1.026151  | 0.561602  | 0.620153      | 1.228110  | 1.595356  | 0.476944  | 0.979565  | 1.355174  |
| 5         |               |           |           |           |           |               |           |           |           |           |           |
| 6         |               |           |           |           |           |               |           |           |           |           |           |
| 7         |               |           |           |           |           |               |           |           |           |           |           |
| Mean      | 0.771         | 1.565     | 1.058     | 1.063     | 0.553     | 0.661         | 1.327     | 1.592     | 0.518     | 0.892     | 1.265     |
| Std. Dev. | 0.064         | 0.085     | 0.097     | 0.108     | 0.011     | 0.041         | 0.090     | 0.127     | 0.041     | 0.081     | 0.113     |
| % RSD     | 8.29          | 5.40      | 9.21      | 10.15     | 1.91      | 6.25          | 6.76      | 7.96      | 7.92      | 9.07      | 8.96      |

**Calibration Component Summary**

**Table**

**Component Summary For RF**

|           | 116 (205) | 117 (206) | 118 (209) |
|-----------|-----------|-----------|-----------|
| 1         | 0.909552  | 1.164367  |           |
| 2         | 1.038400  | 1.048794  | 0.877885  |
| 3         | 0.813702  | 1.099835  | 0.792006  |
| 4         | 0.912458  | 1.209203  | 0.758286  |
| 5         |           |           |           |
| 6         |           |           |           |
| 7         |           |           |           |
| Mean      | 0.919     | 1.131     | 0.809     |
| Std. Dev. | 0.092     | 0.071     | 0.062     |
| % RSD     | 10.03     | 6.25      | 7.62      |



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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120A                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 6.25 ng/mL          | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 3:59:42 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:15 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:06 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-6 [m]          |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                             | 11.680            | 34               | 0.439                   | 0.439                | 0.025155                    |
| 2  | 3 (2)                             | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                             | 12.802            | 13               | 0.256                   | 0.256                | 0.016396                    |
| 4  | 5 (4,10)                          | 13.428            | 27               | 0.124                   | 0.124                | 0.071781                    |
| 5  | 6 (7,9)                           | 14.265            | 62               | 0.044                   | 0.044                | 0.459808                    |
| 6  | 7 (6)                             | 14.573            | 52               | 0.069                   | 0.069                | 0.244895                    |
| 7  | 8 (5,8)                           | 14.771            | 189              | 0.512                   | 0.512                | 0.120726                    |
| 8  | 9 (14)                            | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                           | 15.412            |                  |                         |                      |                             |
| 10 | 11 (30)                           | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                           | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                        | 16.118            |                  |                         |                      |                             |
| 13 | 14 (15,18)                        | 16.265            | 182              | 0.135                   | 0.135                | 0.440325                    |
| 14 | 15 (17)                           | 16.349            | 62               | 0.135                   | 0.135                | 0.150092                    |
| 15 | 16 (24,27)                        | 16.645            | 15               | 0.009                   | 0.009                | 0.499058                    |
| 16 | 17 (16,32)                        | 16.921            | 111              | 0.143                   | 0.143                | 0.254208                    |
| 17 | 19 (23,34,54)                     | 17.351            |                  |                         |                      |                             |
| 18 | 20 (29)                           | 17.521            |                  |                         |                      |                             |
| 19 | 21 (26)                           | 17.670            | 28               | 0.026                   | 0.026                | 0.349500                    |
| 20 | 22 (25)                           | 17.747            | 18               | 0.012                   | 0.012                | 0.502622                    |
| 21 | 23 (31)                           | 17.937            | 235              | 0.151                   | 0.151                | 0.508810                    |
| 22 | 24 (28,50)                        | 17.985            | 327              | 0.193                   | 0.193                | 0.554239                    |
| 23 | 25 (20,21,33,53)                  | 18.339            | 154              | 0.145                   | 0.145                | 0.347385                    |
| 24 | 26 (22,51)                        | 18.568            | 121              | 0.106                   | 0.106                | 0.373296                    |
| 25 | 27 (45)                           | 18.798            | 43               | 0.033                   | 0.033                | 0.433506                    |
| 26 | 28 (36)                           | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                           | 19.064            | 16               | 0.015                   | 0.015                | 0.359833                    |
| 28 | 30 (39)                           | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                     | 19.368            | 204              | 0.174                   | 0.174                | 0.381965                    |

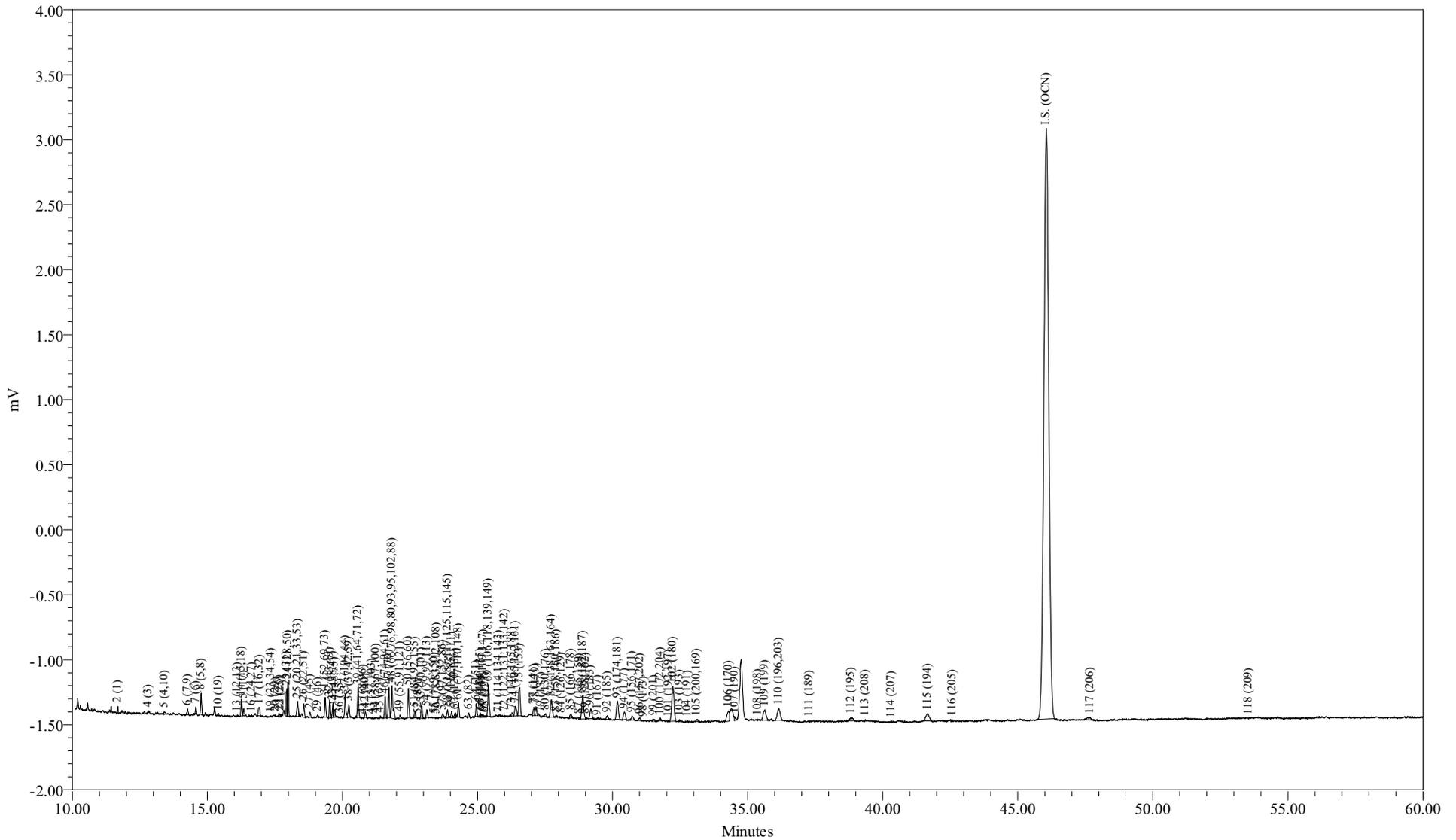
12

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.530            | 185              | 0.084                   | 0.084                | 0.719495                    |
| 31 | 33 (38,47)                        | 19.655            | 94               | 0.037                   | 0.037                | 0.842124                    |
| 32 | 34 (48,75)                        | 19.687            | 72               | 0.037                   | 0.037                | 0.646461                    |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.926            |                  |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.104            | 281              | 0.157                   | 0.157                | 0.583525                    |
| 36 | 38 (37,42,59)                     | 20.234            | 107              | 0.095                   | 0.095                | 0.366998                    |
| 37 | 39 (41,64,71,72)                  | 20.574            | 308              | 0.150                   | 0.150                | 0.671393                    |
| 38 | 41 (68,96)                        | 20.749            |                  |                         |                      |                             |
| 39 | 42 (40)                           | 20.849            | 60               | 0.034                   | 0.034                | 0.573705                    |
| 40 | 43 (57,103)                       | 21.089            |                  |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.251            |                  |                         |                      |                             |
| 42 | 45 (63)                           | 21.438            | 14               | 0.008                   | 0.008                | 0.611656                    |
| 43 | 46 (74,94,61)                     | 21.579            | 236              | 0.069                   | 0.069                | 1.111390                    |
| 44 | 47 (70)                           | 21.720            | 311              | 0.124                   | 0.124                | 0.817605                    |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.830            | 456              | 0.263                   | 0.263                | 0.565679                    |
| 46 | 49 (55,91,121)                    | 22.154            | 30               | 0.019                   | 0.019                | 0.522318                    |
| 47 | 50 (56,60)                        | 22.439            | 316              | 0.128                   | 0.128                | 0.806650                    |
| 48 | 51 (84,92,155)                    | 22.687            | 65               | 0.066                   | 0.066                | 0.320457                    |
| 49 | 52 (89)                           | 22.793            |                  |                         |                      |                             |
| 50 | 53 (90,101)                       | 22.932            | 126              | 0.066                   | 0.066                | 0.625983                    |
| 51 | 54 (79,99,113)                    | 23.130            | 71               | 0.027                   | 0.027                | 0.862652                    |
| 52 | 55 (119,150)                      | 23.404            |                  |                         |                      |                             |
| 53 | 56 (78,83,112,108)                | 23.502            |                  |                         |                      |                             |
| 54 | 57 (97,152,86)                    | 23.723            | 53               | 0.020                   | 0.020                | 0.848309                    |
| 55 | 58 (81,87,117,125,115,145)        | 23.884            | 106              | 0.042                   | 0.042                | 0.819199                    |
| 56 | 59 (116,85,111)                   | 24.051            | 70               | 0.026                   | 0.026                | 0.899273                    |
| 57 | 60 (120,136)                      | 24.186            | 67               | 0.027                   | 0.027                | 0.798256                    |
| 58 | 61 (77,110,148)                   | 24.287            | 160              | 0.078                   | 0.078                | 0.670941                    |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.655            | 36               | 0.016                   | 0.016                | 0.729174                    |
| 61 | 64 (151)                          | 24.963            | 139              | 0.062                   | 0.062                | 0.728526                    |
| 62 | 65 (124,135)                      | 25.102            | 41               | 0.011                   | 0.011                | 1.273536                    |
| 63 | 66 (144)                          | 25.145            | 29               | 0.022                   | 0.022                | 0.431922                    |
| 64 | 67 (107,109,147)                  | 25.216            |                  |                         |                      |                             |
| 65 | 68 (123)                          | 25.305            |                  |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.400            | 419              | 0.146                   | 0.146                | 0.936399                    |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.798            | 15               | 0.007                   | 0.007                | 0.682321                    |
| 69 | 72 (122,131,133,142)              | 26.006            |                  |                         |                      |                             |
| 70 | 73 (146,165,188)                  | 26.265            | 33               | 0.014                   | 0.014                | 0.746052                    |
| 71 | 74 (105,132,161)                  | 26.405            | 145              | 0.050                   | 0.050                | 0.954692                    |
| 72 | 75 (153)                          | 26.560            | 355              | 0.108                   | 0.108                | 1.075617                    |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.090            | 89               | 0.062                   | 0.062                | 0.468487                    |
| 75  | 78 (179)                          | 27.168            | 101              | 0.053                   | 0.053                | 0.619707                    |
| 76  | 79 (137)                          | 27.369            |                  |                         |                      |                             |
| 77  | 80 (130,176)                      | 27.510            | 46               | 0.009                   | 0.009                | 1.590451                    |
| 78  | 82 (138,163,164)                  | 27.737            | 310              | 0.099                   | 0.099                | 1.026292                    |
| 79  | 83 (158,160,186)                  | 27.916            | 23               | 0.009                   | 0.009                | 0.828086                    |
| 80  | 84 (126,129)                      | 28.097            |                  |                         |                      |                             |
| 81  | 85 (166,178)                      | 28.470            | 55               | 0.040                   | 0.040                | 0.444481                    |
| 82  | 87 (175,159)                      | 28.751            |                  |                         |                      |                             |
| 83  | 88 (182,187)                      | 28.894            | 432              | 0.132                   | 0.132                | 1.071022                    |
| 84  | 89 (128,162)                      | 29.026            |                  |                         |                      |                             |
| 85  | 90 (183)                          | 29.189            | 139              | 0.062                   | 0.062                | 0.728745                    |
| 86  | 91 (167)                          | 29.456            |                  |                         |                      |                             |
| 87  | 92 (185)                          | 29.777            | 58               | 0.017                   | 0.017                | 1.105349                    |
| 88  | 93 (174,181)                      | 30.166            | 338              | 0.117                   | 0.117                | 0.943796                    |
| 89  | 94 (177)                          | 30.439            | 139              | 0.062                   | 0.062                | 0.727732                    |
| 90  | 95 (156,171)                      | 30.737            | 77               | 0.029                   | 0.029                | 0.873843                    |
| 91  | 96 (157,202)                      | 30.991            | 39               | 0.002                   | 0.002                | 5.258898                    |
| 92  | 98 (173)                          | 31.155            |                  |                         |                      |                             |
| 93  | 99 (201)                          | 31.502            | 38               | 0.014                   | 0.014                | 0.862172                    |
| 94  | 100 (172,204)                     | 31.768            | 36               | 0.020                   | 0.020                | 0.577019                    |
| 95  | 101 (192,197)                     | 32.056            |                  |                         |                      |                             |
| 96  | 102 (180)                         | 32.221            | 746              | 0.223                   | 0.223                | 1.092771                    |
| 97  | 103 (193)                         | 32.469            | 33               | 0.015                   | 0.015                | 0.710921                    |
| 98  | 104 (191)                         | 32.789            |                  |                         |                      |                             |
| 99  | 105 (200,169)                     | 33.132            | 34               | 0.016                   | 0.016                | 0.703294                    |
| 100 | 106 (170)                         | 34.329            | 237              | 0.047                   | 0.047                | 1.655601                    |
| 101 | 107 (190)                         | 34.495            | 49               | 0.015                   | 0.015                | 1.046053                    |
| 102 | 108 (198)                         | 35.390            |                  |                         |                      |                             |
| 103 | 109 (199)                         | 35.627            | 253              | 0.154                   | 0.154                | 0.538298                    |
| 104 | 110 (196,203)                     | 36.172            | 342              | 0.157                   | 0.157                | 0.709401                    |
| 105 | 111 (189)                         | 37.287            |                  |                         |                      |                             |
| 106 | 112 (195)                         | 38.806            | 107              | 0.020                   | 0.020                | 1.729301                    |
| 107 | 113 (208)                         | 39.345            |                  |                         |                      |                             |
| 108 | 114 (207)                         | 40.265            |                  |                         |                      |                             |
| 109 | 115 (194)                         | 41.668            | 225              | 0.066                   | 0.066                | 1.116610                    |
| 110 | 116 (205)                         | 42.533            | 11               | 0.004                   | 0.004                | 0.909552                    |
| 111 | I.S. (OCN)                        | 46.057            | 55691            | 18.180                  | 18.180               | 3063.314224                 |
| 112 | 117 (206)                         | 47.531            | 89               | 0.025                   | 0.025                | 1.164367                    |
| 113 | 118 (209)                         | 53.553            |                  |                         |                      |                             |



Sample Name: ICAL0120B  
 Sample ID: ICAL 12.5 ng/mL  
 Date Acquired: 1/20/2015 5:05:30 PM EST

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X 012015  
 LIMS File ID: GC24-1126-7 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120B                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 12.5 ng/mL          | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 5:05:30 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:17 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:08 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-7 [m]          |

**Peak Results**

|    | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                            | 11.683            | 88               | 0.877                   | 0.877                | 0.032002                    |
| 2  | 3 (2)                            | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                            | 12.811            | 24               | 0.512                   | 0.512                | 0.015002                    |
| 4  | 5 (4,10)                         | 13.408            | 57               | 0.249                   | 0.249                | 0.073041                    |
| 5  | 6 (7,9)                          | 14.269            | 131              | 0.088                   | 0.088                | 0.476198                    |
| 6  | 7 (6)                            | 14.572            | 109              | 0.139                   | 0.139                | 0.249614                    |
| 7  | 8 (5,8)                          | 14.770            | 411              | 1.023                   | 1.023                | 0.127749                    |
| 8  | 9 (14)                           | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                          | 15.411            | 22               | 0.020                   | 0.020                | 0.337401                    |
| 10 | 11 (30)                          | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                          | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                       | 16.109            | 22               | 0.020                   | 0.020                | 0.356193                    |
| 13 | 14 (15,18)                       | 16.263            | 334              | 0.270                   | 0.270                | 0.392864                    |
| 14 | 15 (17)                          | 16.347            | 135              | 0.270                   | 0.270                | 0.158797                    |
| 15 | 16 (24,27)                       | 16.639            | 24               | 0.019                   | 0.019                | 0.404183                    |
| 16 | 17 (16,32)                       | 16.929            | 276              | 0.285                   | 0.285                | 0.307648                    |
| 17 | 19 (23,34,54)                    | 17.352            | 9                |                         |                      |                             |
| 18 | 20 (29)                          | 17.518            | 4                | 0.004                   | 0.004                | 0.343533                    |
| 19 | 21 (26)                          | 17.650            | 61               | 0.053                   | 0.053                | 0.368512                    |
| 20 | 22 (25)                          | 17.703            | 40               | 0.023                   | 0.023                | 0.545994                    |
| 21 | 23 (31)                          | 17.938            | 496              | 0.301                   | 0.301                | 0.523990                    |
| 22 | 24 (28,50)                       | 17.982            | 766              | 0.386                   | 0.386                | 0.631469                    |
| 23 | 25 (20,21,33,53)                 | 18.345            | 376              | 0.290                   | 0.290                | 0.411520                    |
| 24 | 26 (22,51)                       | 18.570            | 290              | 0.212                   | 0.212                | 0.434826                    |
| 25 | 27 (45)                          | 18.799            | 103              | 0.065                   | 0.065                | 0.501734                    |
| 26 | 28 (36)                          | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                          | 19.092            | 39               | 0.029                   | 0.029                | 0.426421                    |
| 28 | 30 (39)                          | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                    | 19.364            | 417              | 0.349                   | 0.349                | 0.380132                    |

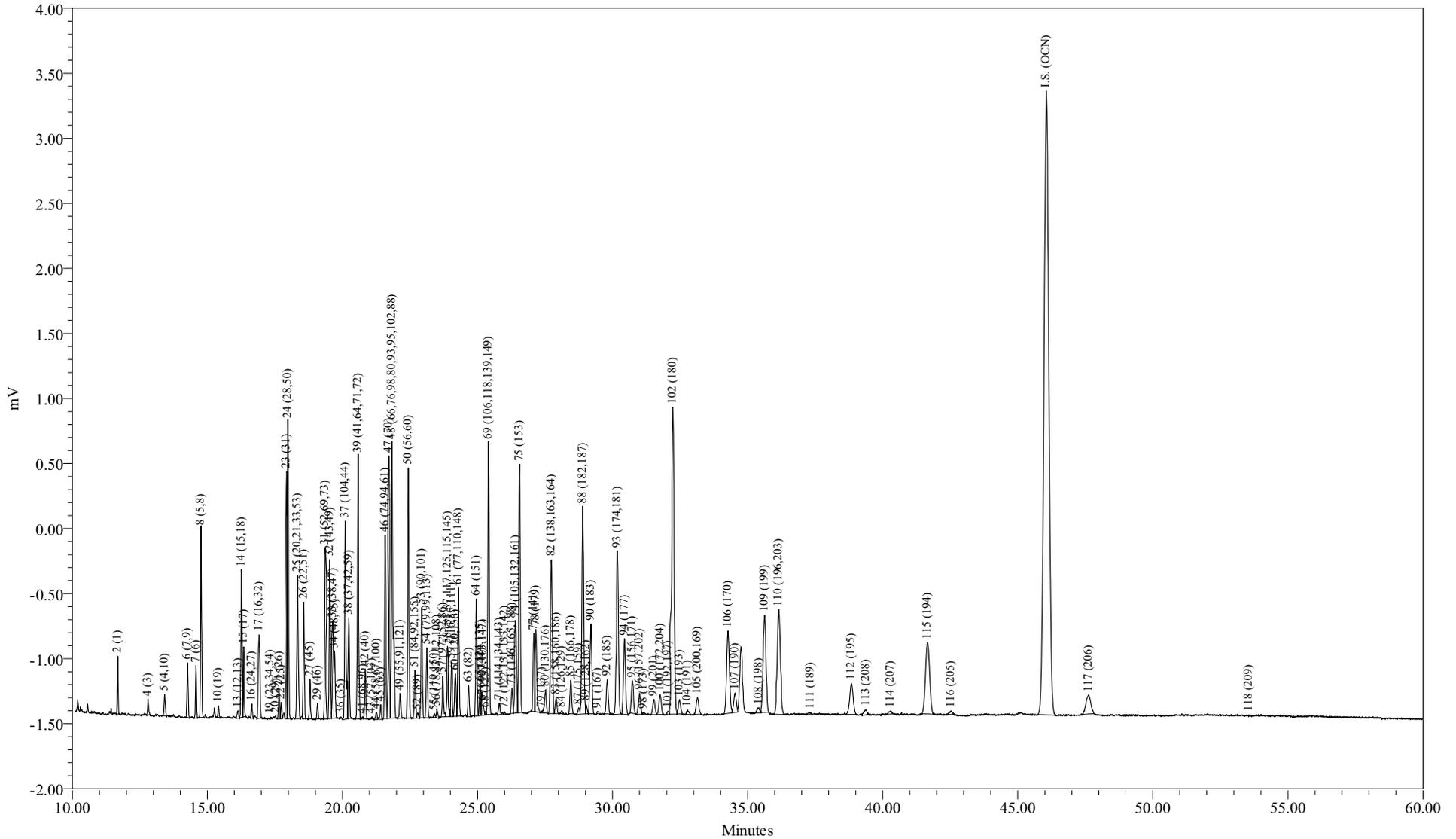
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**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.536            | 425              | 0.168                   | 0.168                | 0.803262                    |
| 31 | 33 (38,47)                        | 19.652            | 191              | 0.073                   | 0.073                | 0.830680                    |
| 32 | 34 (48,75)                        | 19.712            | 146              | 0.073                   | 0.073                | 0.633253                    |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.904            | 5                |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.103            | 568              | 0.314                   | 0.314                | 0.574658                    |
| 36 | 38 (37,42,59)                     | 20.235            | 243              | 0.190                   | 0.190                | 0.406045                    |
| 37 | 39 (41,64,71,72)                  | 20.579            | 704              | 0.300                   | 0.300                | 0.746932                    |
| 38 | 41 (68,96)                        | 20.763            | 33               |                         |                      |                             |
| 39 | 42 (40)                           | 20.847            | 121              | 0.069                   | 0.069                | 0.559565                    |
| 40 | 43 (57,103)                       | 21.084            | 6                |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.242            | 19               | 0.008                   | 0.008                | 0.750404                    |
| 42 | 45 (63)                           | 21.403            | 31               | 0.015                   | 0.015                | 0.648502                    |
| 43 | 46 (74,94,61)                     | 21.585            | 496              | 0.139                   | 0.139                | 1.135442                    |
| 44 | 47 (70)                           | 21.718            | 681              | 0.249                   | 0.249                | 0.871285                    |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.834            | 998              | 0.526                   | 0.526                | 0.603197                    |
| 46 | 49 (55,91,121)                    | 22.133            | 68               | 0.037                   | 0.037                | 0.583434                    |
| 47 | 50 (56,60)                        | 22.443            | 681              | 0.256                   | 0.256                | 0.846659                    |
| 48 | 51 (84,92,155)                    | 22.683            | 117              | 0.132                   | 0.132                | 0.282549                    |
| 49 | 52 (89)                           | 22.807            | 12               | 0.007                   | 0.007                | 0.518364                    |
| 50 | 53 (90,101)                       | 22.931            | 313              | 0.132                   | 0.132                | 0.757468                    |
| 51 | 54 (79,99,113)                    | 23.126            | 167              | 0.054                   | 0.054                | 0.982455                    |
| 52 | 55 (119,150)                      | 23.403            | 9                | 0.002                   | 0.002                | 1.419939                    |
| 53 | 56 (78,83,112,108)                | 23.476            | 19               | 0.011                   | 0.011                | 0.562081                    |
| 54 | 57 (97,152,86)                    | 23.711            | 115              | 0.041                   | 0.041                | 0.894237                    |
| 55 | 58 (81,87,117,125,115,145)        | 23.892            | 218              | 0.085                   | 0.085                | 0.816503                    |
| 56 | 59 (116,85,111)                   | 24.044            | 159              | 0.051                   | 0.051                | 0.986477                    |
| 57 | 60 (120,136)                      | 24.171            | 131              | 0.055                   | 0.055                | 0.759518                    |
| 58 | 61 (77,110,148)                   | 24.299            | 325              | 0.156                   | 0.156                | 0.663845                    |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.679            | 82               | 0.032                   | 0.032                | 0.812560                    |
| 61 | 64 (151)                          | 24.954            | 294              | 0.124                   | 0.124                | 0.752475                    |
| 62 | 65 (124,135)                      | 25.105            | 81               | 0.021                   | 0.021                | 1.211761                    |
| 63 | 66 (144)                          | 25.145            | 50               | 0.044                   | 0.044                | 0.363832                    |
| 64 | 67 (107,109,147)                  | 25.211            | 18               | 0.009                   | 0.009                | 0.591004                    |
| 65 | 68 (123)                          | 25.276            | 35               |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.404            | 857              | 0.292                   | 0.292                | 0.932564                    |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.782            | 29               | 0.015                   | 0.015                | 0.631142                    |
| 69 | 72 (122,131,133,142)              | 26.005            | 8                | 0.002                   | 0.002                | 1.136036                    |
| 70 | 73 (146,165,188)                  | 26.280            | 69               | 0.029                   | 0.029                | 0.770931                    |
| 71 | 74 (105,132,161)                  | 26.400            | 343              | 0.099                   | 0.099                | 1.102518                    |
| 72 | 75 (153)                          | 26.558            | 810              | 0.215                   | 0.215                | 1.197612                    |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.091            | 199              | 0.124                   | 0.124                | 0.509306                    |
| 75  | 78 (179)                          | 27.162            | 239              | 0.107                   | 0.107                | 0.710948                    |
| 76  | 79 (137)                          | 27.364            | 4                | 0.005                   | 0.005                | 0.221094                    |
| 77  | 80 (130,176)                      | 27.519            | 80               | 0.019                   | 0.019                | 1.337377                    |
| 78  | 82 (138,163,164)                  | 27.737            | 637              | 0.197                   | 0.197                | 1.027276                    |
| 79  | 83 (158,160,186)                  | 27.917            | 45               | 0.018                   | 0.018                | 0.776534                    |
| 80  | 84 (126,129)                      | 28.106            | 7                | 0.001                   | 0.001                | 2.305063                    |
| 81  | 85 (166,178)                      | 28.465            | 123              | 0.080                   | 0.080                | 0.488379                    |
| 82  | 87 (175,159)                      | 28.759            | 23               | 0.015                   | 0.015                | 0.493133                    |
| 83  | 88 (182,187)                      | 28.899            | 879              | 0.263                   | 0.263                | 1.062658                    |
| 84  | 89 (128,162)                      | 29.006            | 26               | 0.007                   | 0.007                | 1.122002                    |
| 85  | 90 (183)                          | 29.190            | 348              | 0.124                   | 0.124                | 0.889862                    |
| 86  | 91 (167)                          | 29.453            | 5                | 0.004                   | 0.004                | 0.451099                    |
| 87  | 92 (185)                          | 29.808            | 123              | 0.034                   | 0.034                | 1.135841                    |
| 88  | 93 (174,181)                      | 30.184            | 693              | 0.234                   | 0.234                | 0.942223                    |
| 89  | 94 (177)                          | 30.437            | 302              | 0.124                   | 0.124                | 0.772924                    |
| 90  | 95 (156,171)                      | 30.720            | 155              | 0.058                   | 0.058                | 0.853835                    |
| 91  | 96 (157,202)                      | 31.013            | 91               | 0.005                   | 0.005                | 5.988693                    |
| 92  | 98 (173)                          | 31.149            | 7                | 0.003                   | 0.003                | 0.825292                    |
| 93  | 99 (201)                          | 31.532            | 73               | 0.029                   | 0.029                | 0.815557                    |
| 94  | 100 (172,204)                     | 31.762            | 73               | 0.041                   | 0.041                | 0.565950                    |
| 95  | 101 (192,197)                     | 32.072            | 11               | 0.008                   | 0.008                | 0.446444                    |
| 96  | 102 (180)                         | 32.231            | 1573             | 0.446                   | 0.446                | 1.122257                    |
| 97  | 103 (193)                         | 32.479            | 58               | 0.031                   | 0.031                | 0.595889                    |
| 98  | 104 (191)                         | 32.773            | 20               | 0.009                   | 0.009                | 0.718631                    |
| 99  | 105 (200,169)                     | 33.113            | 72               | 0.031                   | 0.031                | 0.729238                    |
| 100 | 106 (170)                         | 34.294            | 475              | 0.094                   | 0.094                | 1.616334                    |
| 101 | 107 (190)                         | 34.519            | 96               | 0.031                   | 0.031                | 0.989702                    |
| 102 | 108 (198)                         | 35.375            | 33               | 0.009                   | 0.009                | 1.184732                    |
| 103 | 109 (199)                         | 35.639            | 540              | 0.307                   | 0.307                | 0.559584                    |
| 104 | 110 (196,203)                     | 36.154            | 671              | 0.314                   | 0.314                | 0.679628                    |
| 105 | 111 (189)                         | 37.280            | 13               | 0.003                   | 0.003                | 1.403545                    |
| 106 | 112 (195)                         | 38.831            | 181              | 0.040                   | 0.040                | 1.422985                    |
| 107 | 113 (208)                         | 39.346            | 29               | 0.018                   | 0.018                | 0.517530                    |
| 108 | 114 (207)                         | 40.321            | 19               | 0.007                   | 0.007                | 0.876111                    |
| 109 | 115 (194)                         | 41.668            | 511              | 0.132                   | 0.132                | 1.236502                    |
| 110 | 116 (205)                         | 42.578            | 26               | 0.008                   | 0.008                | 1.038400                    |
| 111 | I.S. (OCN)                        | 46.060            | 57148            | 18.180                  | 18.180               | 3143.454871                 |
| 112 | 117 (206)                         | 47.683            | 164              | 0.050                   | 0.050                | 1.048794                    |
| 113 | 118 (209)                         | 53.545            | 2                | 0.001                   | 0.001                | 0.877885                    |



Sample Name: ICAL0120C  
 Sample ID: ICAL 125 ng/mL  
 Date Acquired: 1/20/2015 6:11:16 PM EST

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X 012015  
 LIMS File ID: GC24-1126-8 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120C                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 125 ng/mL           | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 6:11:16 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:21 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:09 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-8 [m]          |

**Peak Results**

|    | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                            | 11.683            | 815              | 8.771                   | 8.771                | 0.028309                    |
| 2  | 3 (2)                            | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                            | 12.806            | 283              | 5.117                   | 5.117                | 0.016848                    |
| 4  | 5 (4,10)                         | 13.419            | 511              | 2.485                   | 2.485                | 0.062650                    |
| 5  | 6 (7,9)                          | 14.268            | 1238             | 0.877                   | 0.877                | 0.429903                    |
| 6  | 7 (6)                            | 14.580            | 1004             | 1.389                   | 1.389                | 0.220284                    |
| 7  | 8 (5,8)                          | 14.767            | 3800             | 10.233                  | 10.233               | 0.113140                    |
| 8  | 9 (14)                           | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                          | 15.410            | 224              | 0.205                   | 0.205                | 0.333298                    |
| 10 | 11 (30)                          | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                          | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                       | 16.135            | 229              | 0.195                   | 0.195                | 0.357231                    |
| 13 | 14 (15,18)                       | 16.262            | 3289             | 2.704                   | 2.704                | 0.370459                    |
| 14 | 15 (17)                          | 16.347            | 1428             | 2.704                   | 2.704                | 0.160865                    |
| 15 | 16 (24,27)                       | 16.647            | 299              | 0.190                   | 0.190                | 0.480208                    |
| 16 | 17 (16,32)                       | 16.910            | 2737             | 2.851                   | 2.851                | 0.292548                    |
| 17 | 19 (23,34,54)                    | 17.330            | 46               |                         |                      |                             |
| 18 | 20 (29)                          | 17.532            | 43               | 0.039                   | 0.039                | 0.340371                    |
| 19 | 21 (26)                          | 17.655            | 612              | 0.526                   | 0.526                | 0.354521                    |
| 20 | 22 (25)                          | 17.736            | 354              | 0.234                   | 0.234                | 0.461409                    |
| 21 | 23 (31)                          | 17.935            | 4813             | 3.014                   | 3.014                | 0.486598                    |
| 22 | 24 (28,50)                       | 17.983            | 6726             | 3.857                   | 3.857                | 0.531284                    |
| 23 | 25 (20,21,33,53)                 | 18.339            | 3886             | 2.903                   | 2.903                | 0.407790                    |
| 24 | 26 (22,51)                       | 18.570            | 2572             | 2.120                   | 2.120                | 0.369699                    |
| 25 | 27 (45)                          | 18.801            | 881              | 0.650                   | 0.650                | 0.412604                    |
| 26 | 28 (36)                          | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                          | 19.082            | 348              | 0.292                   | 0.292                | 0.362771                    |
| 28 | 30 (39)                          | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                    | 19.365            | 3972             | 3.487                   | 3.487                | 0.347071                    |

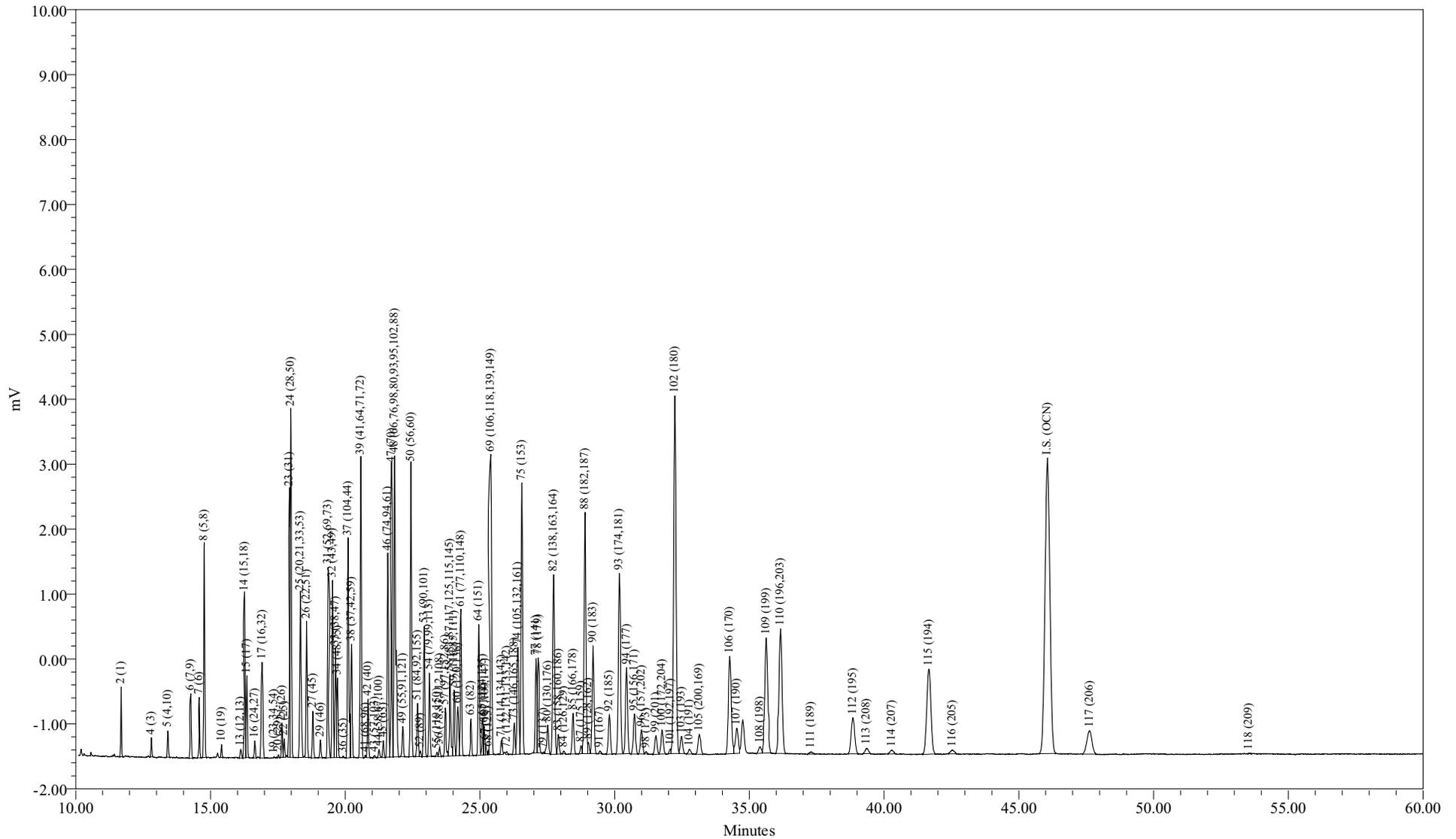
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**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.531            | 3714             | 1.681                   | 1.681                | 0.673114                    |
| 31 | 33 (38,47)                        | 19.645            | 2294             | 0.731                   | 0.731                | 0.955812                    |
| 32 | 34 (48,75)                        | 19.708            | 1567             | 0.731                   | 0.731                | 0.653237                    |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.941            | 39               |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.103            | 5434             | 3.143                   | 3.143                | 0.526694                    |
| 36 | 38 (37,42,59)                     | 20.235            | 2518             | 1.901                   | 1.901                | 0.403658                    |
| 37 | 39 (41,64,71,72)                  | 20.578            | 6478             | 2.997                   | 2.997                | 0.658586                    |
| 38 | 41 (68,96)                        | 20.746            | 35               |                         |                      |                             |
| 39 | 42 (40)                           | 20.845            | 1139             | 0.687                   | 0.687                | 0.505110                    |
| 40 | 43 (57,103)                       | 21.090            | 46               |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.261            | 210              | 0.080                   | 0.080                | 0.794929                    |
| 42 | 45 (63)                           | 21.417            | 348              | 0.154                   | 0.154                | 0.689729                    |
| 43 | 46 (74,94,61)                     | 21.582            | 4429             | 1.389                   | 1.389                | 0.971658                    |
| 44 | 47 (70)                           | 21.717            | 6411             | 2.485                   | 2.485                | 0.785891                    |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.833            | 8924             | 5.263                   | 5.263                | 0.516590                    |
| 46 | 49 (55,91,121)                    | 22.136            | 665              | 0.373                   | 0.373                | 0.543279                    |
| 47 | 50 (56,60)                        | 22.440            | 6328             | 2.558                   | 2.558                | 0.753628                    |
| 48 | 51 (84,92,155)                    | 22.685            | 1287             | 1.316                   | 1.316                | 0.298074                    |
| 49 | 52 (89)                           | 22.792            | 136              | 0.073                   | 0.073                | 0.565138                    |
| 50 | 53 (90,101)                       | 22.935            | 2833             | 1.316                   | 1.316                | 0.655966                    |
| 51 | 54 (79,99,113)                    | 23.125            | 1771             | 0.541                   | 0.541                | 0.997397                    |
| 52 | 55 (119,150)                      | 23.405            | 92               | 0.020                   | 0.020                | 1.371424                    |
| 53 | 56 (78,83,112,108)                | 23.498            | 212              | 0.110                   | 0.110                | 0.588707                    |
| 54 | 57 (97,152,86)                    | 23.717            | 1090             | 0.409                   | 0.409                | 0.811694                    |
| 55 | 58 (81,87,117,125,115,145)        | 23.891            | 1945             | 0.848                   | 0.848                | 0.699037                    |
| 56 | 59 (116,85,111)                   | 24.039            | 1376             | 0.512                   | 0.512                | 0.819424                    |
| 57 | 60 (120,136)                      | 24.178            | 1273             | 0.548                   | 0.548                | 0.707218                    |
| 58 | 61 (77,110,148)                   | 24.295            | 3202             | 1.557                   | 1.557                | 0.626522                    |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.669            | 791              | 0.322                   | 0.322                | 0.749346                    |
| 61 | 64 (151)                          | 24.956            | 2942             | 1.243                   | 1.243                | 0.721208                    |
| 62 | 65 (124,135)                      | 25.098            | 851              | 0.212                   | 0.212                | 1.223315                    |
| 63 | 66 (144)                          | 25.155            | 563              | 0.439                   | 0.439                | 0.391088                    |
| 64 | 67 (107,109,147)                  | 25.197            | 202              | 0.095                   | 0.095                | 0.646857                    |
| 65 | 68 (123)                          | 25.296            | 73               |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.406            | 7779             | 2.924                   | 2.924                | 0.810593                    |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.803            | 351              | 0.148                   | 0.148                | 0.725474                    |
| 69 | 72 (122,131,133,142)              | 26.008            | 68               | 0.021                   | 0.021                | 0.979958                    |
| 70 | 73 (146,165,188)                  | 26.276            | 686              | 0.285                   | 0.285                | 0.733436                    |
| 71 | 74 (105,132,161)                  | 26.408            | 3282             | 0.990                   | 0.990                | 1.009687                    |
| 72 | 75 (153)                          | 26.558            | 7141             | 2.153                   | 2.153                | 1.010531                    |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.086            | 2235             | 1.243                   | 1.243                | 0.547999                    |
| 75  | 78 (179)                          | 27.161            | 2658             | 1.067                   | 1.067                | 0.758745                    |
| 76  | 79 (137)                          | 27.378            | 36               | 0.055                   | 0.055                | 0.198637                    |
| 77  | 80 (130,176)                      | 27.522            | 838              | 0.190                   | 0.190                | 1.343538                    |
| 78  | 82 (138,163,164)                  | 27.732            | 5899             | 1.974                   | 1.974                | 0.910584                    |
| 79  | 83 (158,160,186)                  | 27.909            | 508              | 0.183                   | 0.183                | 0.846770                    |
| 80  | 84 (126,129)                      | 28.118            | 82               | 0.009                   | 0.009                | 2.640320                    |
| 81  | 85 (166,178)                      | 28.458            | 1134             | 0.804                   | 0.804                | 0.429831                    |
| 82  | 87 (175,159)                      | 28.751            | 209              | 0.146                   | 0.146                | 0.435311                    |
| 83  | 88 (182,187)                      | 28.899            | 7808             | 2.631                   | 2.631                | 0.903950                    |
| 84  | 89 (128,162)                      | 29.023            | 252              | 0.073                   | 0.073                | 1.048113                    |
| 85  | 90 (183)                          | 29.199            | 3310             | 1.243                   | 1.243                | 0.811555                    |
| 86  | 91 (167)                          | 29.452            | 63               | 0.036                   | 0.036                | 0.535010                    |
| 87  | 92 (185)                          | 29.804            | 1316             | 0.343                   | 0.343                | 1.167459                    |
| 88  | 93 (174,181)                      | 30.179            | 6721             | 2.339                   | 2.339                | 0.875425                    |
| 89  | 94 (177)                          | 30.439            | 3094             | 1.243                   | 1.243                | 0.758671                    |
| 90  | 95 (156,171)                      | 30.730            | 1361             | 0.578                   | 0.578                | 0.718018                    |
| 91  | 96 (157,202)                      | 30.997            | 889              | 0.048                   | 0.048                | 5.609296                    |
| 92  | 98 (173)                          | 31.152            | 69               | 0.028                   | 0.028                | 0.754670                    |
| 93  | 99 (201)                          | 31.524            | 696              | 0.285                   | 0.285                | 0.743732                    |
| 94  | 100 (172,204)                     | 31.765            | 903              | 0.409                   | 0.409                | 0.672237                    |
| 95  | 101 (192,197)                     | 32.054            | 110              | 0.080                   | 0.080                | 0.415451                    |
| 96  | 102 (180)                         | 32.230            | 14793            | 4.459                   | 4.459                | 1.010764                    |
| 97  | 103 (193)                         | 32.478            | 629              | 0.307                   | 0.307                | 0.624284                    |
| 98  | 104 (191)                         | 32.775            | 191              | 0.088                   | 0.088                | 0.663380                    |
| 99  | 105 (200,169)                     | 33.145            | 845              | 0.314                   | 0.314                | 0.818811                    |
| 100 | 106 (170)                         | 34.273            | 4548             | 0.936                   | 0.936                | 1.481029                    |
| 101 | 107 (190)                         | 34.540            | 1004             | 0.307                   | 0.307                | 0.996046                    |
| 102 | 108 (198)                         | 35.413            | 282              | 0.088                   | 0.088                | 0.978780                    |
| 103 | 109 (199)                         | 35.628            | 5577             | 3.070                   | 3.070                | 0.553439                    |
| 104 | 110 (196,203)                     | 36.151            | 6535             | 3.143                   | 3.143                | 0.633408                    |
| 105 | 111 (189)                         | 37.328            | 129              | 0.029                   | 0.029                | 1.348358                    |
| 106 | 112 (195)                         | 38.839            | 2147             | 0.404                   | 0.404                | 1.618715                    |
| 107 | 113 (208)                         | 39.373            | 331              | 0.180                   | 0.180                | 0.559000                    |
| 108 | 114 (207)                         | 40.296            | 183              | 0.068                   | 0.068                | 0.820152                    |
| 109 | 115 (194)                         | 41.658            | 5840             | 1.316                   | 1.316                | 1.352342                    |
| 110 | 116 (205)                         | 42.526            | 215              | 0.080                   | 0.080                | 0.813702                    |
| 111 | I.S. (OCN)                        | 46.063            | 59673            | 18.180                  | 18.180               | 3282.366129                 |
| 112 | 117 (206)                         | 47.625            | 1794             | 0.497                   | 0.497                | 1.099835                    |
| 113 | 118 (209)                         | 53.563            | 23               | 0.009                   | 0.009                | 0.792006                    |



Sample Name: ICAL0120D  
 Sample ID: ICAL 314 ng/mL  
 Date Acquired: 1/20/2015 7:16:50 PM EST

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X 012015  
 LIMS File ID: GC24-1126-9 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120D                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 314 ng/mL           | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 7:16:50 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:25 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:11 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-9 [m]          |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                             | 11.683            | 1979             | 21.928                  | 21.928               | 0.028612                    |
| 2  | 3 (2)                             | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                             | 12.806            | 625              | 12.792                  | 12.792               | 0.015496                    |
| 4  | 5 (4,10)                          | 13.418            | 1198             | 6.213                   | 6.213                | 0.061143                    |
| 5  | 6 (7,9)                           | 14.269            | 2864             | 2.193                   | 2.193                | 0.414144                    |
| 6  | 7 (6)                             | 14.578            | 2250             | 3.472                   | 3.472                | 0.205474                    |
| 7  | 8 (5,8)                           | 14.767            | 8648             | 25.583                  | 25.583               | 0.107166                    |
| 8  | 9 (14)                            | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                           | 15.410            | 472              | 0.512                   | 0.512                | 0.292206                    |
| 10 | 11 (30)                           | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                           | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                        | 16.121            | 473              | 0.488                   | 0.488                | 0.307551                    |
| 13 | 14 (15,18)                        | 16.263            | 7531             | 6.761                   | 6.761                | 0.353109                    |
| 14 | 15 (17)                           | 16.349            | 3462             | 6.761                   | 6.761                | 0.162337                    |
| 15 | 16 (24,27)                        | 16.648            | 738              | 0.475                   | 0.475                | 0.492719                    |
| 16 | 17 (16,32)                        | 16.915            | 6448             | 7.127                   | 7.127                | 0.286836                    |
| 17 | 19 (23,34,54)                     | 17.358            | 33               |                         |                      |                             |
| 18 | 20 (29)                           | 17.522            | 112              | 0.097                   | 0.097                | 0.367057                    |
| 19 | 21 (26)                           | 17.653            | 1443             | 1.316                   | 1.316                | 0.347641                    |
| 20 | 22 (25)                           | 17.736            | 787              | 0.585                   | 0.585                | 0.426689                    |
| 21 | 23 (31)                           | 17.936            | 10657            | 7.534                   | 7.534                | 0.448433                    |
| 22 | 24 (28,50)                        | 17.983            | 15514            | 9.643                   | 9.643                | 0.510069                    |
| 23 | 25 (20,21,33,53)                  | 18.339            | 8992             | 7.258                   | 7.258                | 0.392745                    |
| 24 | 26 (22,51)                        | 18.569            | 6040             | 5.300                   | 5.300                | 0.361349                    |
| 25 | 27 (45)                           | 18.801            | 2120             | 1.626                   | 1.626                | 0.413277                    |
| 26 | 28 (36)                           | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                           | 19.082            | 851              | 0.731                   | 0.731                | 0.369140                    |
| 28 | 30 (39)                           | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                     | 19.367            | 9041             | 8.716                   | 8.716                | 0.328849                    |

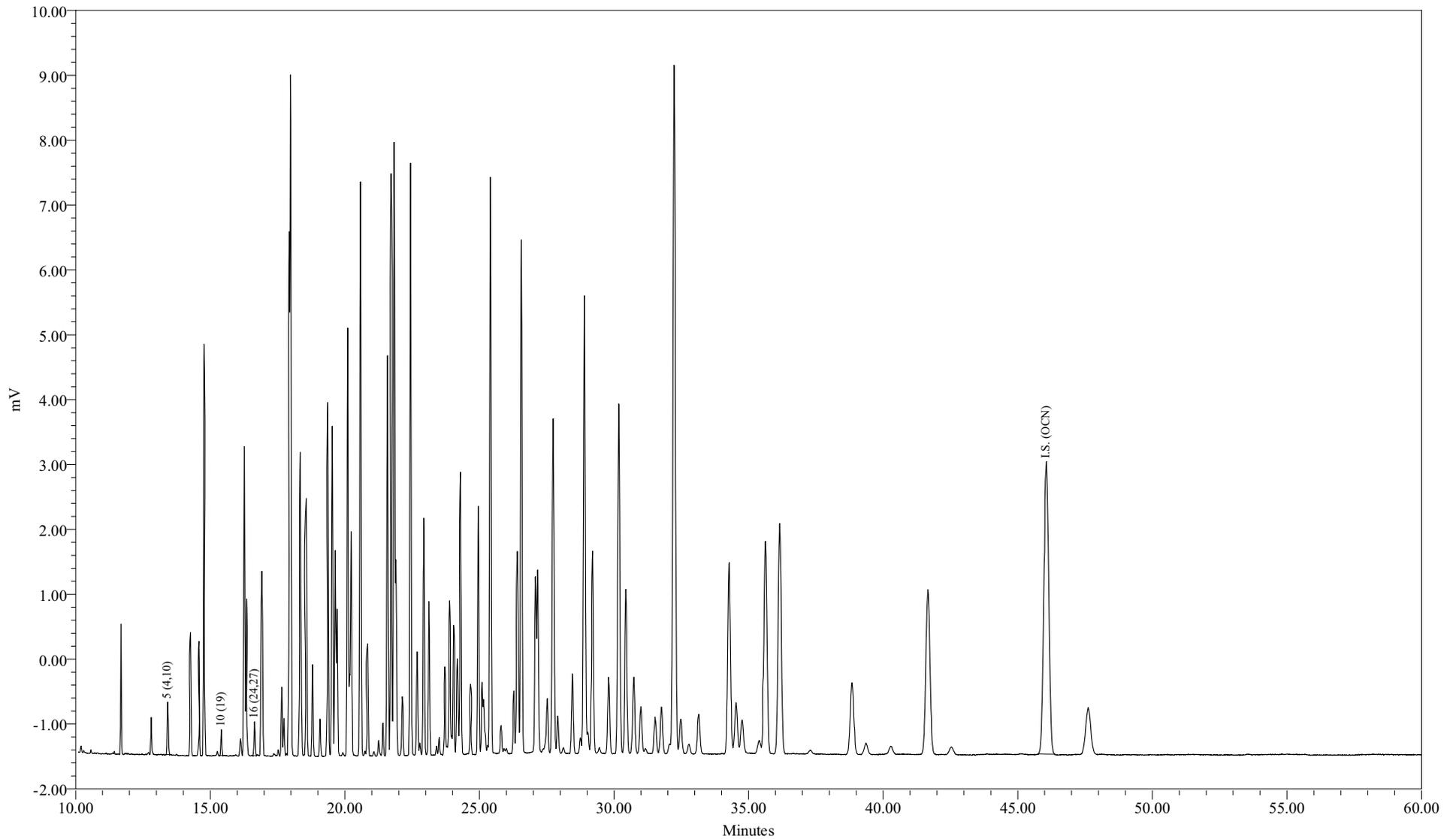
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**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.533            | 8538             | 4.203                   | 4.203                | 0.644034                    |
| 31 | 33 (38,47)                        | 19.644            | 5200             | 1.828                   | 1.828                | 0.902062                    |
| 32 | 34 (48,75)                        | 19.712            | 3603             | 1.828                   | 1.828                | 0.625029                    |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.924            | 60               |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.106            | 12301            | 7.858                   | 7.858                | 0.496296                    |
| 36 | 38 (37,42,59)                     | 20.234            | 5820             | 4.751                   | 4.751                | 0.388370                    |
| 37 | 39 (41,64,71,72)                  | 20.579            | 14743            | 7.492                   | 7.492                | 0.623832                    |
| 38 | 41 (68,96)                        | 20.752            | 90               |                         |                      |                             |
| 39 | 42 (40)                           | 20.846            | 2757             | 1.718                   | 1.718                | 0.508857                    |
| 40 | 43 (57,103)                       | 21.094            | 135              |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.256            | 452              | 0.201                   | 0.201                | 0.713559                    |
| 42 | 45 (63)                           | 21.415            | 796              | 0.384                   | 0.384                | 0.657952                    |
| 43 | 46 (74,94,61)                     | 21.582            | 10161            | 3.472                   | 3.472                | 0.927790                    |
| 44 | 47 (70)                           | 21.718            | 14533            | 6.213                   | 6.213                | 0.741571                    |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.833            | 20453            | 13.157                  | 13.157               | 0.492840                    |
| 46 | 49 (55,91,121)                    | 22.139            | 1520             | 0.932                   | 0.932                | 0.517053                    |
| 47 | 50 (56,60)                        | 22.443            | 14587            | 6.396                   | 6.396                | 0.723057                    |
| 48 | 51 (84,92,155)                    | 22.685            | 2921             | 3.289                   | 3.289                | 0.281556                    |
| 49 | 52 (89)                           | 22.786            | 280              | 0.183                   | 0.183                | 0.485317                    |
| 50 | 53 (90,101)                       | 22.934            | 6613             | 3.289                   | 3.289                | 0.637436                    |
| 51 | 54 (79,99,113)                    | 23.127            | 4084             | 1.352                   | 1.352                | 0.957590                    |
| 52 | 55 (119,150)                      | 23.413            | 213              | 0.051                   | 0.051                | 1.316235                    |
| 53 | 56 (78,83,112,108)                | 23.506            | 458              | 0.274                   | 0.274                | 0.529747                    |
| 54 | 57 (97,152,86)                    | 23.716            | 2581             | 1.023                   | 1.023                | 0.799700                    |
| 55 | 58 (81,87,117,125,115,145)        | 23.890            | 4566             | 2.120                   | 2.120                | 0.682952                    |
| 56 | 59 (116,85,111)                   | 24.042            | 3329             | 1.279                   | 1.279                | 0.824904                    |
| 57 | 60 (120,136)                      | 24.179            | 3038             | 1.370                   | 1.370                | 0.702814                    |
| 58 | 61 (77,110,148)                   | 24.297            | 7471             | 3.892                   | 3.892                | 0.608520                    |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.669            | 1826             | 0.804                   | 0.804                | 0.719906                    |
| 61 | 64 (151)                          | 24.956            | 6820             | 3.106                   | 3.106                | 0.696010                    |
| 62 | 65 (124,135)                      | 25.097            | 1939             | 0.530                   | 0.530                | 1.159700                    |
| 63 | 66 (144)                          | 25.155            | 1413             | 1.097                   | 1.097                | 0.408578                    |
| 64 | 67 (107,109,147)                  | 25.200            | 414              | 0.237                   | 0.237                | 0.552784                    |
| 65 | 68 (123)                          | 25.313            | 171              |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.405            | 17551            | 7.309                   | 7.309                | 0.761237                    |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.808            | 843              | 0.369                   | 0.369                | 0.724309                    |
| 69 | 72 (122,131,133,142)              | 25.996            | 178              | 0.053                   | 0.053                | 1.059620                    |
| 70 | 73 (146,165,188)                  | 26.278            | 1752             | 0.713                   | 0.713                | 0.779032                    |
| 71 | 74 (105,132,161)                  | 26.409            | 7875             | 2.476                   | 2.476                | 1.008346                    |
| 72 | 75 (153)                          | 26.555            | 16241            | 5.382                   | 5.382                | 0.956729                    |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.085            | 5452             | 3.106                   | 3.106                | 0.556424                    |
| 75  | 78 (179)                          | 27.165            | 6010             | 2.668                   | 2.668                | 0.714197                    |
| 76  | 79 (137)                          | 27.363            | 104              | 0.137                   | 0.137                | 0.239807                    |
| 77  | 80 (130,176)                      | 27.519            | 2014             | 0.475                   | 0.475                | 1.344272                    |
| 78  | 82 (138,163,164)                  | 27.735            | 13691            | 4.964                   | 4.964                | 0.874387                    |
| 79  | 83 (158,160,186)                  | 27.911            | 1255             | 0.457                   | 0.457                | 0.871630                    |
| 80  | 84 (126,129)                      | 28.113            | 175              | 0.024                   | 0.024                | 2.352538                    |
| 81  | 85 (166,178)                      | 28.456            | 2814             | 2.010                   | 2.010                | 0.443843                    |
| 82  | 87 (175,159)                      | 28.757            | 509              | 0.366                   | 0.366                | 0.441703                    |
| 83  | 88 (182,187)                      | 28.903            | 17866            | 6.578                   | 6.578                | 0.861032                    |
| 84  | 89 (128,162)                      | 29.029            | 649              | 0.183                   | 0.183                | 1.125108                    |
| 85  | 90 (183)                          | 29.199            | 7918             | 3.106                   | 3.106                | 0.808081                    |
| 86  | 91 (167)                          | 29.449            | 159              | 0.090                   | 0.090                | 0.562792                    |
| 87  | 92 (185)                          | 29.804            | 3141             | 0.859                   | 0.859                | 1.159835                    |
| 88  | 93 (174,181)                      | 30.173            | 15462            | 5.847                   | 5.847                | 0.838315                    |
| 89  | 94 (177)                          | 30.442            | 7192             | 3.106                   | 3.106                | 0.733986                    |
| 90  | 95 (156,171)                      | 30.734            | 3452             | 1.444                   | 1.444                | 0.758019                    |
| 91  | 96 (157,202)                      | 30.995            | 2057             | 0.121                   | 0.121                | 5.403264                    |
| 92  | 98 (173)                          | 31.171            | 182              | 0.069                   | 0.069                | 0.830553                    |
| 93  | 99 (201)                          | 31.534            | 1676             | 0.713                   | 0.713                | 0.745213                    |
| 94  | 100 (172,204)                     | 31.759            | 2150             | 1.023                   | 1.023                | 0.666160                    |
| 95  | 101 (192,197)                     | 32.077            | 272              | 0.201                   | 0.201                | 0.429552                    |
| 96  | 102 (180)                         | 32.233            | 34156            | 11.147                  | 11.147               | 0.971443                    |
| 97  | 103 (193)                         | 32.481            | 1592             | 0.768                   | 0.768                | 0.657662                    |
| 98  | 104 (191)                         | 32.772            | 454              | 0.219                   | 0.219                | 0.656988                    |
| 99  | 105 (200,169)                     | 33.144            | 2060             | 0.786                   | 0.786                | 0.831213                    |
| 100 | 106 (170)                         | 34.270            | 11107            | 2.339                   | 2.339                | 1.505439                    |
| 101 | 107 (190)                         | 34.530            | 2902             | 0.768                   | 0.768                | 1.198771                    |
| 102 | 108 (198)                         | 35.399            | 710              | 0.219                   | 0.219                | 1.026151                    |
| 103 | 109 (199)                         | 35.626            | 13596            | 7.675                   | 7.675                | 0.561602                    |
| 104 | 110 (196,203)                     | 36.161            | 15371            | 7.858                   | 7.858                | 0.620153                    |
| 105 | 111 (189)                         | 37.284            | 282              | 0.073                   | 0.073                | 1.228110                    |
| 106 | 112 (195)                         | 38.842            | 5084             | 1.010                   | 1.010                | 1.595356                    |
| 107 | 113 (208)                         | 39.345            | 679              | 0.451                   | 0.451                | 0.476944                    |
| 108 | 114 (207)                         | 40.290            | 525              | 0.170                   | 0.170                | 0.979565                    |
| 109 | 115 (194)                         | 41.665            | 14060            | 3.289                   | 3.289                | 1.355174                    |
| 110 | 116 (205)                         | 42.545            | 578              | 0.201                   | 0.201                | 0.912458                    |
| 111 | I.S. (OCN)                        | 46.068            | 57344            | 18.180                  | 18.180               | 3154.225106                 |
| 112 | 117 (206)                         | 47.630            | 4739             | 1.242                   | 1.242                | 1.209203                    |
| 113 | 118 (209)                         | 53.541            | 53               | 0.022                   | 0.022                | 0.758286                    |



Sample Name: ICAL0120E  
Sample ID: ICAL 627 ng/mL  
Date Acquired: 1/20/2015 8:22:37 PM EST

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X 012015  
LIMS File ID: GC24-1126-10 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120E                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 627 ng/mL           | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 8:22:37 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:34 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:12 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-10 [m]         |

**Peak Results**

|    | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                            | 11.683            |                  |                         |                      |                             |
| 2  | 3 (2)                            | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                            | 12.805            |                  |                         |                      |                             |
| 4  | 5 (4,10)                         | 13.418            | 2393             | 12.426                  | 12.426               | 0.060748                    |
| 5  | 6 (7,9)                          | 14.269            |                  |                         |                      |                             |
| 6  | 7 (6)                            | 14.581            |                  |                         |                      |                             |
| 7  | 8 (5,8)                          | 14.768            |                  |                         |                      |                             |
| 8  | 9 (14)                           | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                          | 15.411            | 992              | 1.024                   | 1.024                | 0.305487                    |
| 10 | 11 (30)                          | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                          | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                       | 16.118            |                  |                         |                      |                             |
| 13 | 14 (15,18)                       | 16.264            |                  |                         |                      |                             |
| 14 | 15 (17)                          | 16.348            |                  |                         |                      |                             |
| 15 | 16 (24,27)                       | 16.648            | 1491             | 0.950                   | 0.950                | 0.495094                    |
| 16 | 17 (16,32)                       | 16.912            |                  |                         |                      |                             |
| 17 | 19 (23,34,54)                    | 17.351            |                  |                         |                      |                             |
| 18 | 20 (29)                          | 17.521            |                  |                         |                      |                             |
| 19 | 21 (26)                          | 17.655            |                  |                         |                      |                             |
| 20 | 22 (25)                          | 17.731            |                  |                         |                      |                             |
| 21 | 23 (31)                          | 17.937            |                  |                         |                      |                             |
| 22 | 24 (28,50)                       | 17.984            |                  |                         |                      |                             |
| 23 | 25 (20,21,33,53)                 | 18.337            |                  |                         |                      |                             |
| 24 | 26 (22,51)                       | 18.569            |                  |                         |                      |                             |
| 25 | 27 (45)                          | 18.802            |                  |                         |                      |                             |
| 26 | 28 (36)                          | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                          | 19.079            |                  |                         |                      |                             |
| 28 | 30 (39)                          | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                    | 19.365            |                  |                         |                      |                             |

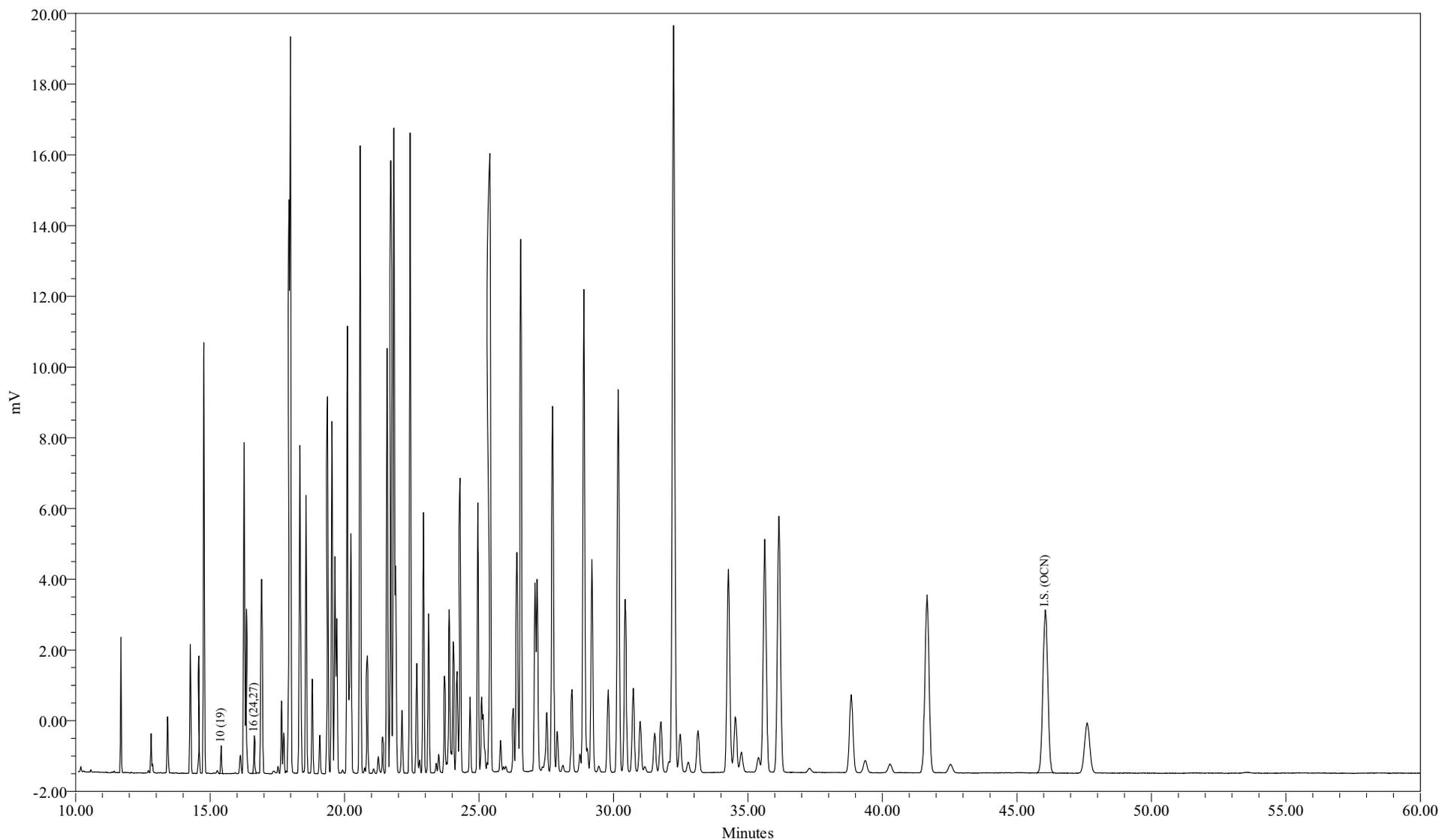
12

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.531            |                  |                         |                      |                             |
| 31 | 33 (38,47)                        | 19.645            |                  |                         |                      |                             |
| 32 | 34 (48,75)                        | 19.710            |                  |                         |                      |                             |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.926            |                  |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.103            |                  |                         |                      |                             |
| 36 | 38 (37,42,59)                     | 20.234            |                  |                         |                      |                             |
| 37 | 39 (41,64,71,72)                  | 20.576            |                  |                         |                      |                             |
| 38 | 41 (68,96)                        | 20.749            |                  |                         |                      |                             |
| 39 | 42 (40)                           | 20.844            |                  |                         |                      |                             |
| 40 | 43 (57,103)                       | 21.089            |                  |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.251            |                  |                         |                      |                             |
| 42 | 45 (63)                           | 21.410            |                  |                         |                      |                             |
| 43 | 46 (74,94,61)                     | 21.582            |                  |                         |                      |                             |
| 44 | 47 (70)                           | 21.719            |                  |                         |                      |                             |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.834            |                  |                         |                      |                             |
| 46 | 49 (55,91,121)                    | 22.139            |                  |                         |                      |                             |
| 47 | 50 (56,60)                        | 22.441            |                  |                         |                      |                             |
| 48 | 51 (84,92,155)                    | 22.687            |                  |                         |                      |                             |
| 49 | 52 (89)                           | 22.793            |                  |                         |                      |                             |
| 50 | 53 (90,101)                       | 22.932            |                  |                         |                      |                             |
| 51 | 54 (79,99,113)                    | 23.122            |                  |                         |                      |                             |
| 52 | 55 (119,150)                      | 23.404            |                  |                         |                      |                             |
| 53 | 56 (78,83,112,108)                | 23.502            |                  |                         |                      |                             |
| 54 | 57 (97,152,86)                    | 23.717            |                  |                         |                      |                             |
| 55 | 58 (81,87,117,125,115,145)        | 23.889            |                  |                         |                      |                             |
| 56 | 59 (116,85,111)                   | 24.040            |                  |                         |                      |                             |
| 57 | 60 (120,136)                      | 24.181            |                  |                         |                      |                             |
| 58 | 61 (77,110,148)                   | 24.296            |                  |                         |                      |                             |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.666            |                  |                         |                      |                             |
| 61 | 64 (151)                          | 24.956            |                  |                         |                      |                             |
| 62 | 65 (124,135)                      | 25.097            |                  |                         |                      |                             |
| 63 | 66 (144)                          | 25.146            |                  |                         |                      |                             |
| 64 | 67 (107,109,147)                  | 25.216            |                  |                         |                      |                             |
| 65 | 68 (123)                          | 25.305            |                  |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.405            |                  |                         |                      |                             |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.802            |                  |                         |                      |                             |
| 69 | 72 (122,131,133,142)              | 26.006            |                  |                         |                      |                             |
| 70 | 73 (146,165,188)                  | 26.274            |                  |                         |                      |                             |
| 71 | 74 (105,132,161)                  | 26.408            |                  |                         |                      |                             |
| 72 | 75 (153)                          | 26.553            |                  |                         |                      |                             |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.085            |                  |                         |                      |                             |
| 75  | 78 (179)                          | 27.160            |                  |                         |                      |                             |
| 76  | 79 (137)                          | 27.369            |                  |                         |                      |                             |
| 77  | 80 (130,176)                      | 27.522            |                  |                         |                      |                             |
| 78  | 82 (138,163,164)                  | 27.733            |                  |                         |                      |                             |
| 79  | 83 (158,160,186)                  | 27.909            |                  |                         |                      |                             |
| 80  | 84 (126,129)                      | 28.097            |                  |                         |                      |                             |
| 81  | 85 (166,178)                      | 28.452            |                  |                         |                      |                             |
| 82  | 87 (175,159)                      | 28.751            |                  |                         |                      |                             |
| 83  | 88 (182,187)                      | 28.898            |                  |                         |                      |                             |
| 84  | 89 (128,162)                      | 29.026            |                  |                         |                      |                             |
| 85  | 90 (183)                          | 29.199            |                  |                         |                      |                             |
| 86  | 91 (167)                          | 29.456            |                  |                         |                      |                             |
| 87  | 92 (185)                          | 29.798            |                  |                         |                      |                             |
| 88  | 93 (174,181)                      | 30.175            |                  |                         |                      |                             |
| 89  | 94 (177)                          | 30.435            |                  |                         |                      |                             |
| 90  | 95 (156,171)                      | 30.738            |                  |                         |                      |                             |
| 91  | 96 (157,202)                      | 30.987            |                  |                         |                      |                             |
| 92  | 98 (173)                          | 31.155            |                  |                         |                      |                             |
| 93  | 99 (201)                          | 31.524            |                  |                         |                      |                             |
| 94  | 100 (172,204)                     | 31.758            |                  |                         |                      |                             |
| 95  | 101 (192,197)                     | 32.056            |                  |                         |                      |                             |
| 96  | 102 (180)                         | 32.230            |                  |                         |                      |                             |
| 97  | 103 (193)                         | 32.483            |                  |                         |                      |                             |
| 98  | 104 (191)                         | 32.789            |                  |                         |                      |                             |
| 99  | 105 (200,169)                     | 33.145            |                  |                         |                      |                             |
| 100 | 106 (170)                         | 34.275            |                  |                         |                      |                             |
| 101 | 107 (190)                         | 34.538            |                  |                         |                      |                             |
| 102 | 108 (198)                         | 35.390            |                  |                         |                      |                             |
| 103 | 109 (199)                         | 35.625            |                  |                         |                      |                             |
| 104 | 110 (196,203)                     | 36.153            |                  |                         |                      |                             |
| 105 | 111 (189)                         | 37.287            |                  |                         |                      |                             |
| 106 | 112 (195)                         | 38.840            |                  |                         |                      |                             |
| 107 | 113 (208)                         | 39.345            |                  |                         |                      |                             |
| 108 | 114 (207)                         | 40.265            |                  |                         |                      |                             |
| 109 | 115 (194)                         | 41.659            |                  |                         |                      |                             |
| 110 | 116 (205)                         | 42.539            |                  |                         |                      |                             |
| 111 | I.S. (OCN)                        | 46.066            | 57643            | 18.180                  | 18.180               | 3170.670756                 |
| 112 | 117 (206)                         | 47.614            |                  |                         |                      |                             |
| 113 | 118 (209)                         | 53.553            |                  |                         |                      |                             |



Sample Name: ICAL0120F  
Sample ID: ICAL 1254 ng/mL  
Date Acquired: 1/20/2015 9:28:26 PM EST

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB LL1X 012015  
LIMS File ID: GC24-1126-11 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICAL0120F                | Sample Amount:  | 1                        |
| Sample ID:         | ICAL 1254 ng/mL          | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 9:28:26 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:57:37 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:11:13 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC24-1126-11 [m]         |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                             | 11.683            |                  |                         |                      |                             |
| 2  | 3 (2)                             | 12.703            |                  |                         |                      |                             |
| 3  | 4 (3)                             | 12.805            |                  |                         |                      |                             |
| 4  | 5 (4,10)                          | 13.420            |                  |                         |                      |                             |
| 5  | 6 (7,9)                           | 14.269            |                  |                         |                      |                             |
| 6  | 7 (6)                             | 14.581            |                  |                         |                      |                             |
| 7  | 8 (5,8)                           | 14.768            |                  |                         |                      |                             |
| 8  | 9 (14)                            | 15.320            |                  |                         |                      |                             |
| 9  | 10 (19)                           | 15.411            | 1986             | 2.047                   | 2.047                | 0.303018                    |
| 10 | 11 (30)                           | 15.866            |                  |                         |                      |                             |
| 11 | 12 (11)                           | 15.927            |                  |                         |                      |                             |
| 12 | 13 (12,13)                        | 16.118            |                  |                         |                      |                             |
| 13 | 14 (15,18)                        | 16.264            |                  |                         |                      |                             |
| 14 | 15 (17)                           | 16.348            |                  |                         |                      |                             |
| 15 | 16 (24,27)                        | 16.648            | 2955             | 1.900                   | 1.900                | 0.485919                    |
| 16 | 17 (16,32)                        | 16.912            |                  |                         |                      |                             |
| 17 | 19 (23,34,54)                     | 17.351            |                  |                         |                      |                             |
| 18 | 20 (29)                           | 17.521            |                  |                         |                      |                             |
| 19 | 21 (26)                           | 17.655            |                  |                         |                      |                             |
| 20 | 22 (25)                           | 17.731            |                  |                         |                      |                             |
| 21 | 23 (31)                           | 17.937            |                  |                         |                      |                             |
| 22 | 24 (28,50)                        | 17.984            |                  |                         |                      |                             |
| 23 | 25 (20,21,33,53)                  | 18.337            |                  |                         |                      |                             |
| 24 | 26 (22,51)                        | 18.569            |                  |                         |                      |                             |
| 25 | 27 (45)                           | 18.802            |                  |                         |                      |                             |
| 26 | 28 (36)                           | 18.929            |                  |                         |                      |                             |
| 27 | 29 (46)                           | 19.079            |                  |                         |                      |                             |
| 28 | 30 (39)                           | 19.185            |                  |                         |                      |                             |
| 29 | 31 (52,69,73)                     | 19.365            |                  |                         |                      |                             |

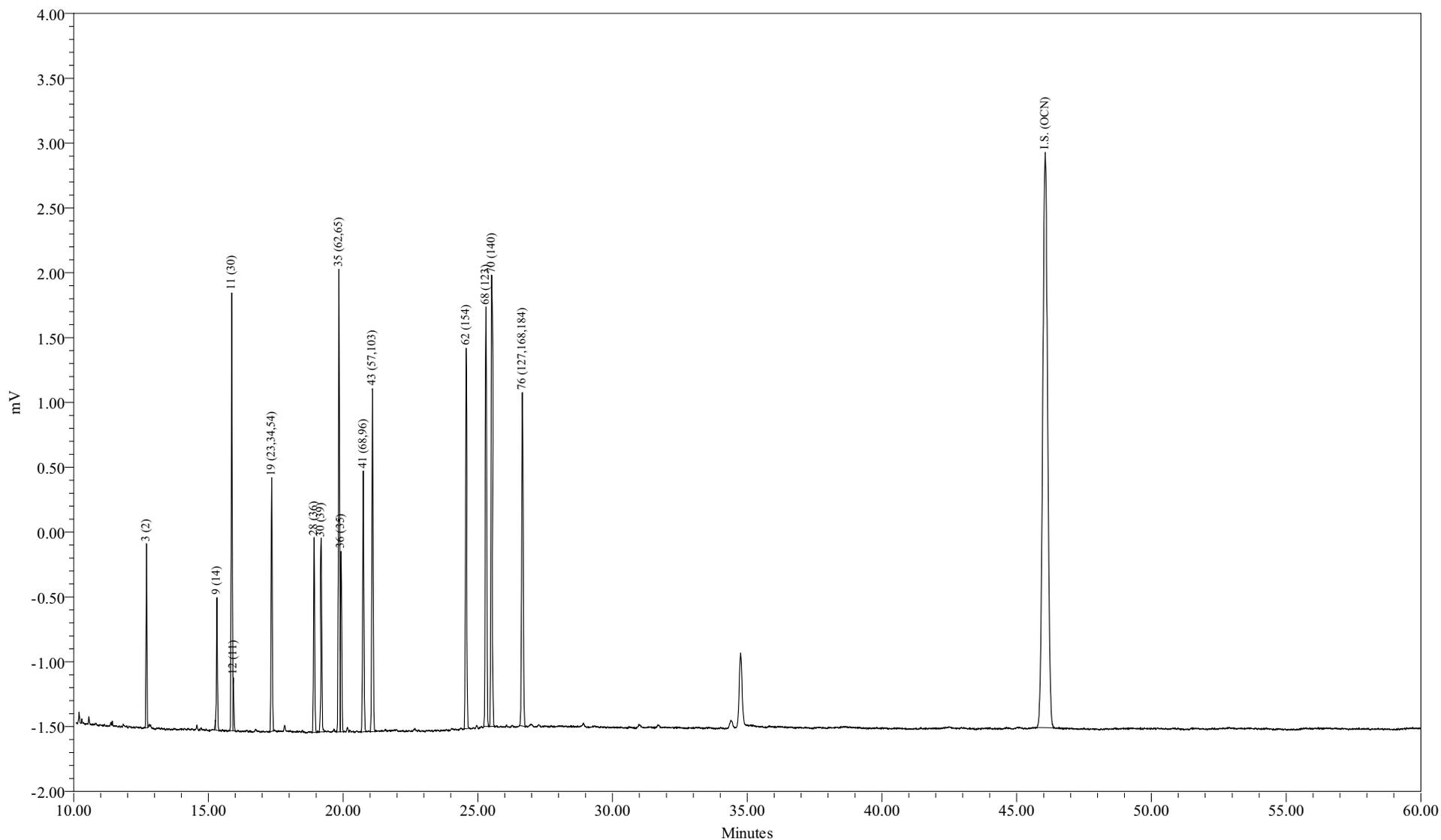
12

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.531            |                  |                         |                      |                             |
| 31 | 33 (38,47)                        | 19.645            |                  |                         |                      |                             |
| 32 | 34 (48,75)                        | 19.710            |                  |                         |                      |                             |
| 33 | 35 (62,65)                        | 19.848            |                  |                         |                      |                             |
| 34 | 36 (35)                           | 19.926            |                  |                         |                      |                             |
| 35 | 37 (104,44)                       | 20.103            |                  |                         |                      |                             |
| 36 | 38 (37,42,59)                     | 20.234            |                  |                         |                      |                             |
| 37 | 39 (41,64,71,72)                  | 20.576            |                  |                         |                      |                             |
| 38 | 41 (68,96)                        | 20.749            |                  |                         |                      |                             |
| 39 | 42 (40)                           | 20.844            |                  |                         |                      |                             |
| 40 | 43 (57,103)                       | 21.089            |                  |                         |                      |                             |
| 41 | 44 (58,67,100)                    | 21.251            |                  |                         |                      |                             |
| 42 | 45 (63)                           | 21.410            |                  |                         |                      |                             |
| 43 | 46 (74,94,61)                     | 21.582            |                  |                         |                      |                             |
| 44 | 47 (70)                           | 21.719            |                  |                         |                      |                             |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.834            |                  |                         |                      |                             |
| 46 | 49 (55,91,121)                    | 22.139            |                  |                         |                      |                             |
| 47 | 50 (56,60)                        | 22.441            |                  |                         |                      |                             |
| 48 | 51 (84,92,155)                    | 22.687            |                  |                         |                      |                             |
| 49 | 52 (89)                           | 22.793            |                  |                         |                      |                             |
| 50 | 53 (90,101)                       | 22.932            |                  |                         |                      |                             |
| 51 | 54 (79,99,113)                    | 23.122            |                  |                         |                      |                             |
| 52 | 55 (119,150)                      | 23.404            |                  |                         |                      |                             |
| 53 | 56 (78,83,112,108)                | 23.502            |                  |                         |                      |                             |
| 54 | 57 (97,152,86)                    | 23.717            |                  |                         |                      |                             |
| 55 | 58 (81,87,117,125,115,145)        | 23.889            |                  |                         |                      |                             |
| 56 | 59 (116,85,111)                   | 24.040            |                  |                         |                      |                             |
| 57 | 60 (120,136)                      | 24.181            |                  |                         |                      |                             |
| 58 | 61 (77,110,148)                   | 24.296            |                  |                         |                      |                             |
| 59 | 62 (154)                          | 24.569            |                  |                         |                      |                             |
| 60 | 63 (82)                           | 24.666            |                  |                         |                      |                             |
| 61 | 64 (151)                          | 24.956            |                  |                         |                      |                             |
| 62 | 65 (124,135)                      | 25.097            |                  |                         |                      |                             |
| 63 | 66 (144)                          | 25.146            |                  |                         |                      |                             |
| 64 | 67 (107,109,147)                  | 25.216            |                  |                         |                      |                             |
| 65 | 68 (123)                          | 25.305            |                  |                         |                      |                             |
| 66 | 69 (106,118,139,149)              | 25.405            |                  |                         |                      |                             |
| 67 | 70 (140)                          | 25.517            |                  |                         |                      |                             |
| 68 | 71 (114,134,143)                  | 25.802            |                  |                         |                      |                             |
| 69 | 72 (122,131,133,142)              | 26.006            |                  |                         |                      |                             |
| 70 | 73 (146,165,188)                  | 26.274            |                  |                         |                      |                             |
| 71 | 74 (105,132,161)                  | 26.408            |                  |                         |                      |                             |
| 72 | 75 (153)                          | 26.553            |                  |                         |                      |                             |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.653            |                  |                         |                      |                             |
| 74  | 77 (141)                          | 27.085            |                  |                         |                      |                             |
| 75  | 78 (179)                          | 27.160            |                  |                         |                      |                             |
| 76  | 79 (137)                          | 27.369            |                  |                         |                      |                             |
| 77  | 80 (130,176)                      | 27.522            |                  |                         |                      |                             |
| 78  | 82 (138,163,164)                  | 27.733            |                  |                         |                      |                             |
| 79  | 83 (158,160,186)                  | 27.909            |                  |                         |                      |                             |
| 80  | 84 (126,129)                      | 28.097            |                  |                         |                      |                             |
| 81  | 85 (166,178)                      | 28.452            |                  |                         |                      |                             |
| 82  | 87 (175,159)                      | 28.751            |                  |                         |                      |                             |
| 83  | 88 (182,187)                      | 28.898            |                  |                         |                      |                             |
| 84  | 89 (128,162)                      | 29.026            |                  |                         |                      |                             |
| 85  | 90 (183)                          | 29.199            |                  |                         |                      |                             |
| 86  | 91 (167)                          | 29.456            |                  |                         |                      |                             |
| 87  | 92 (185)                          | 29.798            |                  |                         |                      |                             |
| 88  | 93 (174,181)                      | 30.175            |                  |                         |                      |                             |
| 89  | 94 (177)                          | 30.435            |                  |                         |                      |                             |
| 90  | 95 (156,171)                      | 30.738            |                  |                         |                      |                             |
| 91  | 96 (157,202)                      | 30.987            |                  |                         |                      |                             |
| 92  | 98 (173)                          | 31.155            |                  |                         |                      |                             |
| 93  | 99 (201)                          | 31.524            |                  |                         |                      |                             |
| 94  | 100 (172,204)                     | 31.758            |                  |                         |                      |                             |
| 95  | 101 (192,197)                     | 32.056            |                  |                         |                      |                             |
| 96  | 102 (180)                         | 32.230            |                  |                         |                      |                             |
| 97  | 103 (193)                         | 32.483            |                  |                         |                      |                             |
| 98  | 104 (191)                         | 32.789            |                  |                         |                      |                             |
| 99  | 105 (200,169)                     | 33.145            |                  |                         |                      |                             |
| 100 | 106 (170)                         | 34.275            |                  |                         |                      |                             |
| 101 | 107 (190)                         | 34.538            |                  |                         |                      |                             |
| 102 | 108 (198)                         | 35.390            |                  |                         |                      |                             |
| 103 | 109 (199)                         | 35.625            |                  |                         |                      |                             |
| 104 | 110 (196,203)                     | 36.153            |                  |                         |                      |                             |
| 105 | 111 (189)                         | 37.287            |                  |                         |                      |                             |
| 106 | 112 (195)                         | 38.840            |                  |                         |                      |                             |
| 107 | 113 (208)                         | 39.345            |                  |                         |                      |                             |
| 108 | 114 (207)                         | 40.265            |                  |                         |                      |                             |
| 109 | 115 (194)                         | 41.659            |                  |                         |                      |                             |
| 110 | 116 (205)                         | 42.539            |                  |                         |                      |                             |
| 111 | I.S. (OCN)                        | 46.054            | 58210            | 18.180                  | 18.180               | 3201.885028                 |
| 112 | 117 (206)                         | 47.614            |                  |                         |                      |                             |
| 113 | 118 (209)                         | 53.553            |                  |                         |                      |                             |



Sample Name: SC0120A  
 Sample ID: SUP CONG STD 200/5 ng/ml  
 Date Acquired: 1/20/2015 11:40:14 PM EST

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB LL1X 012015  
 LIMS File ID: GC24-1126-13 [m]

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|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | SC0120A                   | Sample Amount:  | 1                        |
| Sample ID:         | SUP CONG STD 200/5 ng/ml  | Dilution:       | 1                        |
| Date Acquired:     | 1/20/2015 11:40:14 PM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015             | Date Processed: | 1/21/2015 3:57:43 PM EST |
| Sample Set Name:   | GC24_LLCC_012015          | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015          | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes              | Current Time:   | 4:11:14 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt           | LIMS File ID:   | GC24-1126-13 [m]         |

**Peak Results**

|    | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1  | 2 (1)                            | 11.683            |                  |                         |                      |                             |
| 2  | 3 (2)                            | 12.704            | 3011             | 200.000                 | 200.000              | 0.004871                    |
| 3  | 4 (3)                            | 12.805            |                  |                         |                      |                             |
| 4  | 5 (4,10)                         | 13.420            |                  |                         |                      |                             |
| 5  | 6 (7,9)                          | 14.269            |                  |                         |                      |                             |
| 6  | 7 (6)                            | 14.581            |                  |                         |                      |                             |
| 7  | 8 (5,8)                          | 14.768            |                  |                         |                      |                             |
| 8  | 9 (14)                           | 15.320            | 2595             | 5.000                   | 5.000                | 0.167863                    |
| 9  | 10 (19)                          | 15.412            |                  |                         |                      |                             |
| 10 | 11 (30)                          | 15.865            | 9030             | 5.000                   | 5.000                | 0.584224                    |
| 11 | 12 (11)                          | 15.928            | 914              | 5.000                   | 5.000                | 0.059139                    |
| 12 | 13 (12,13)                       | 16.118            |                  |                         |                      |                             |
| 13 | 14 (15,18)                       | 16.264            |                  |                         |                      |                             |
| 14 | 15 (17)                          | 16.348            |                  |                         |                      |                             |
| 15 | 16 (24,27)                       | 16.647            |                  |                         |                      |                             |
| 16 | 17 (16,32)                       | 16.912            |                  |                         |                      |                             |
| 17 | 19 (23,34,54)                    | 17.352            | 5534             | 5.000                   | 5.000                | 0.358059                    |
| 18 | 20 (29)                          | 17.521            |                  |                         |                      |                             |
| 19 | 21 (26)                          | 17.655            |                  |                         |                      |                             |
| 20 | 22 (25)                          | 17.731            |                  |                         |                      |                             |
| 21 | 23 (31)                          | 17.937            |                  |                         |                      |                             |
| 22 | 24 (28,50)                       | 17.984            |                  |                         |                      |                             |
| 23 | 25 (20,21,33,53)                 | 18.337            |                  |                         |                      |                             |
| 24 | 26 (22,51)                       | 18.569            |                  |                         |                      |                             |
| 25 | 27 (45)                          | 18.802            |                  |                         |                      |                             |
| 26 | 28 (36)                          | 18.927            | 4474             | 5.000                   | 5.000                | 0.289430                    |
| 27 | 29 (46)                          | 19.079            |                  |                         |                      |                             |
| 28 | 30 (39)                          | 19.188            | 4406             | 5.000                   | 5.000                | 0.285076                    |
| 29 | 31 (52,69,73)                    | 19.365            |                  |                         |                      |                             |

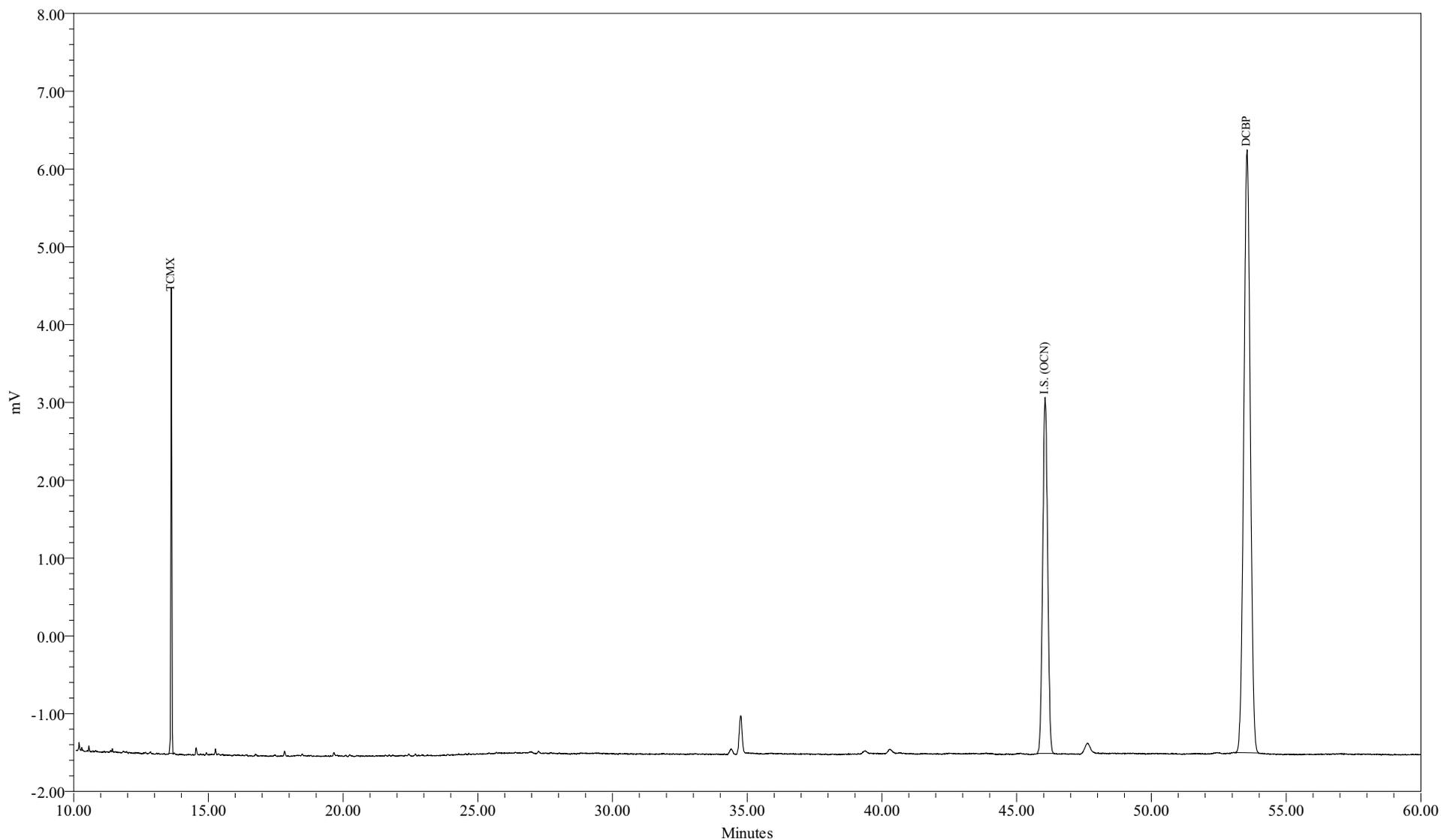
12

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 30 | 32 (43,49)                        | 19.531            |                  |                         |                      |                             |
| 31 | 33 (38,47)                        | 19.645            |                  |                         |                      |                             |
| 32 | 34 (48,75)                        | 19.710            |                  |                         |                      |                             |
| 33 | 35 (62,65)                        | 19.848            | 10845            | 5.000                   | 5.000                | 0.701645                    |
| 34 | 36 (35)                           | 19.927            | 4215             | 5.000                   | 5.000                | 0.272729                    |
| 35 | 37 (104,44)                       | 20.103            |                  |                         |                      |                             |
| 36 | 38 (37,42,59)                     | 20.234            |                  |                         |                      |                             |
| 37 | 39 (41,64,71,72)                  | 20.576            |                  |                         |                      |                             |
| 38 | 41 (68,96)                        | 20.750            | 6325             | 5.000                   | 5.000                | 0.409248                    |
| 39 | 42 (40)                           | 20.844            |                  |                         |                      |                             |
| 40 | 43 (57,103)                       | 21.090            | 8588             | 5.000                   | 5.000                | 0.555619                    |
| 41 | 44 (58,67,100)                    | 21.251            |                  |                         |                      |                             |
| 42 | 45 (63)                           | 21.410            |                  |                         |                      |                             |
| 43 | 46 (74,94,61)                     | 21.582            |                  |                         |                      |                             |
| 44 | 47 (70)                           | 21.719            |                  |                         |                      |                             |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 21.834            |                  |                         |                      |                             |
| 46 | 49 (55,91,121)                    | 22.139            |                  |                         |                      |                             |
| 47 | 50 (56,60)                        | 22.441            |                  |                         |                      |                             |
| 48 | 51 (84,92,155)                    | 22.687            |                  |                         |                      |                             |
| 49 | 52 (89)                           | 22.793            |                  |                         |                      |                             |
| 50 | 53 (90,101)                       | 22.932            |                  |                         |                      |                             |
| 51 | 54 (79,99,113)                    | 23.122            |                  |                         |                      |                             |
| 52 | 55 (119,150)                      | 23.404            |                  |                         |                      |                             |
| 53 | 56 (78,83,112,108)                | 23.502            |                  |                         |                      |                             |
| 54 | 57 (97,152,86)                    | 23.717            |                  |                         |                      |                             |
| 55 | 58 (81,87,117,125,115,145)        | 23.889            |                  |                         |                      |                             |
| 56 | 59 (116,85,111)                   | 24.040            |                  |                         |                      |                             |
| 57 | 60 (120,136)                      | 24.181            |                  |                         |                      |                             |
| 58 | 61 (77,110,148)                   | 24.296            |                  |                         |                      |                             |
| 59 | 62 (154)                          | 24.567            | 9922             | 5.000                   | 5.000                | 0.641948                    |
| 60 | 63 (82)                           | 24.666            |                  |                         |                      |                             |
| 61 | 64 (151)                          | 24.956            |                  |                         |                      |                             |
| 62 | 65 (124,135)                      | 25.097            |                  |                         |                      |                             |
| 63 | 66 (144)                          | 25.146            |                  |                         |                      |                             |
| 64 | 67 (107,109,147)                  | 25.216            |                  |                         |                      |                             |
| 65 | 68 (123)                          | 25.304            | 11232            | 5.000                   | 5.000                | 0.726710                    |
| 66 | 69 (106,118,139,149)              | 25.405            |                  |                         |                      |                             |
| 67 | 70 (140)                          | 25.516            | 11613            | 5.000                   | 5.000                | 0.751325                    |
| 68 | 71 (114,134,143)                  | 25.802            |                  |                         |                      |                             |
| 69 | 72 (122,131,133,142)              | 26.006            |                  |                         |                      |                             |
| 70 | 73 (146,165,188)                  | 26.274            |                  |                         |                      |                             |
| 71 | 74 (105,132,161)                  | 26.408            |                  |                         |                      |                             |
| 72 | 75 (153)                          | 26.553            |                  |                         |                      |                             |

**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|-----|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 73  | 76 (127,168,184)                  | 26.656            | 10200            | 5.000                   | 5.000                | 0.659907                    |
| 74  | 77 (141)                          | 27.085            |                  |                         |                      |                             |
| 75  | 78 (179)                          | 27.160            |                  |                         |                      |                             |
| 76  | 79 (137)                          | 27.369            |                  |                         |                      |                             |
| 77  | 80 (130,176)                      | 27.522            |                  |                         |                      |                             |
| 78  | 82 (138,163,164)                  | 27.733            |                  |                         |                      |                             |
| 79  | 83 (158,160,186)                  | 27.909            |                  |                         |                      |                             |
| 80  | 84 (126,129)                      | 28.097            |                  |                         |                      |                             |
| 81  | 85 (166,178)                      | 28.452            |                  |                         |                      |                             |
| 82  | 87 (175,159)                      | 28.751            |                  |                         |                      |                             |
| 83  | 88 (182,187)                      | 28.898            |                  |                         |                      |                             |
| 84  | 89 (128,162)                      | 29.026            |                  |                         |                      |                             |
| 85  | 90 (183)                          | 29.199            |                  |                         |                      |                             |
| 86  | 91 (167)                          | 29.456            |                  |                         |                      |                             |
| 87  | 92 (185)                          | 29.798            |                  |                         |                      |                             |
| 88  | 93 (174,181)                      | 30.175            |                  |                         |                      |                             |
| 89  | 94 (177)                          | 30.435            |                  |                         |                      |                             |
| 90  | 95 (156,171)                      | 30.738            |                  |                         |                      |                             |
| 91  | 96 (157,202)                      | 30.987            |                  |                         |                      |                             |
| 92  | 98 (173)                          | 31.155            |                  |                         |                      |                             |
| 93  | 99 (201)                          | 31.524            |                  |                         |                      |                             |
| 94  | 100 (172,204)                     | 31.758            |                  |                         |                      |                             |
| 95  | 101 (192,197)                     | 32.056            |                  |                         |                      |                             |
| 96  | 102 (180)                         | 32.230            |                  |                         |                      |                             |
| 97  | 103 (193)                         | 32.483            |                  |                         |                      |                             |
| 98  | 104 (191)                         | 32.789            |                  |                         |                      |                             |
| 99  | 105 (200,169)                     | 33.145            |                  |                         |                      |                             |
| 100 | 106 (170)                         | 34.275            |                  |                         |                      |                             |
| 101 | 107 (190)                         | 34.538            |                  |                         |                      |                             |
| 102 | 108 (198)                         | 35.390            |                  |                         |                      |                             |
| 103 | 109 (199)                         | 35.625            |                  |                         |                      |                             |
| 104 | 110 (196,203)                     | 36.153            |                  |                         |                      |                             |
| 105 | 111 (189)                         | 37.287            |                  |                         |                      |                             |
| 106 | 112 (195)                         | 38.840            |                  |                         |                      |                             |
| 107 | 113 (208)                         | 39.345            |                  |                         |                      |                             |
| 108 | 114 (207)                         | 40.265            |                  |                         |                      |                             |
| 109 | 115 (194)                         | 41.659            |                  |                         |                      |                             |
| 110 | 116 (205)                         | 42.539            |                  |                         |                      |                             |
| 111 | I.S. (OCN)                        | 46.064            | 56199            | 18.180                  | 18.180               | 3091.251462                 |
| 112 | 117 (206)                         | 47.614            |                  |                         |                      |                             |
| 113 | 118 (209)                         | 53.553            |                  |                         |                      |                             |



Sample Name: TD0120A  
Sample ID: Surr TCMX/DCBP 5/50 ppb  
Date Acquired: 1/21/2015 12:45:59 AM EST

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB TD S 012015  
LIMS File ID: GC24-1126-14 [m]

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

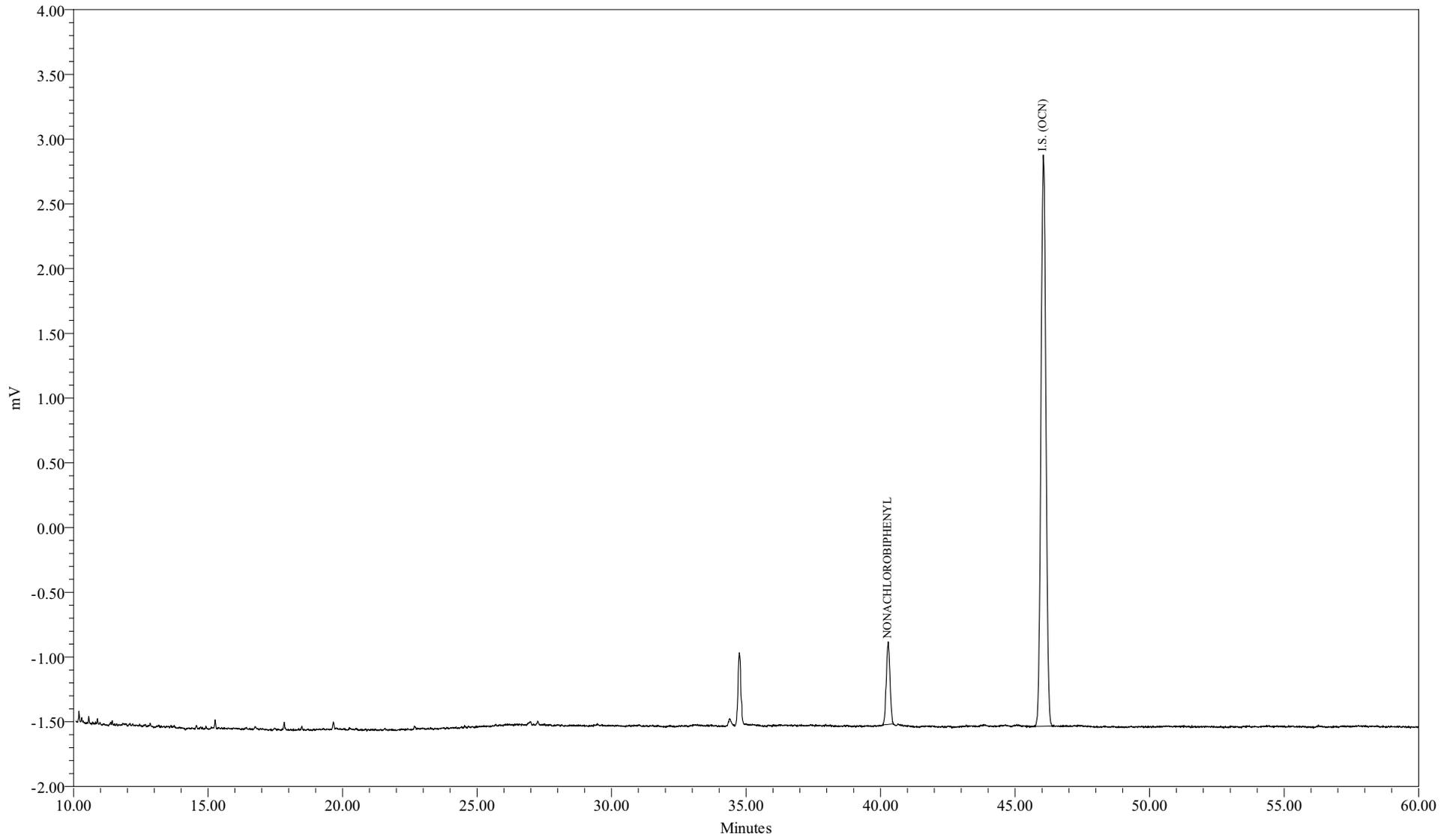
**Phone: (518) 346-4592 Fax: (518) 381-6055**

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Sample Name: TD0120A Sample Amount: 1  
Sample ID: Surr TCMX/DCBP 5/50 ppb Dilution: 1  
Date Acquired: 1/21/2015 12:45:59 AM EST Extract Volume: 1  
Project Name: GC24\_Jan\_2015 Date Processed: 1/21/2015 10:10:38 AM EST  
Sample Set Name: GC24\_LLCC\_012015 User Name: Amie Hamilton (AmieH)  
Processing Method: CSGB\_TD\_S\_012015 Current Date: 1/21/2015  
Run Time: 60.0 Minutes Current Time: 4:11:15 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-1126-14 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | TCMX                              | 13.627            | 13364            | 5.000                   | 5.000                | 0.832434                    |
| 2 | I.S. (OCN)                        | 46.053            | 58374            | 18.180                  | 18.180               | 3210.879860                 |
| 3 | DCBP                              | 53.552            | 129515           | 50.000                  | 50.000               | 0.806728                    |



Sample Name: SS0120A  
Sample ID: Surr Std (207) 2.0 ng/mL  
Date Acquired: 1/21/2015 1:51:45 AM EST

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 2 012015  
LIMS File ID: GC24-1126-15 [m]

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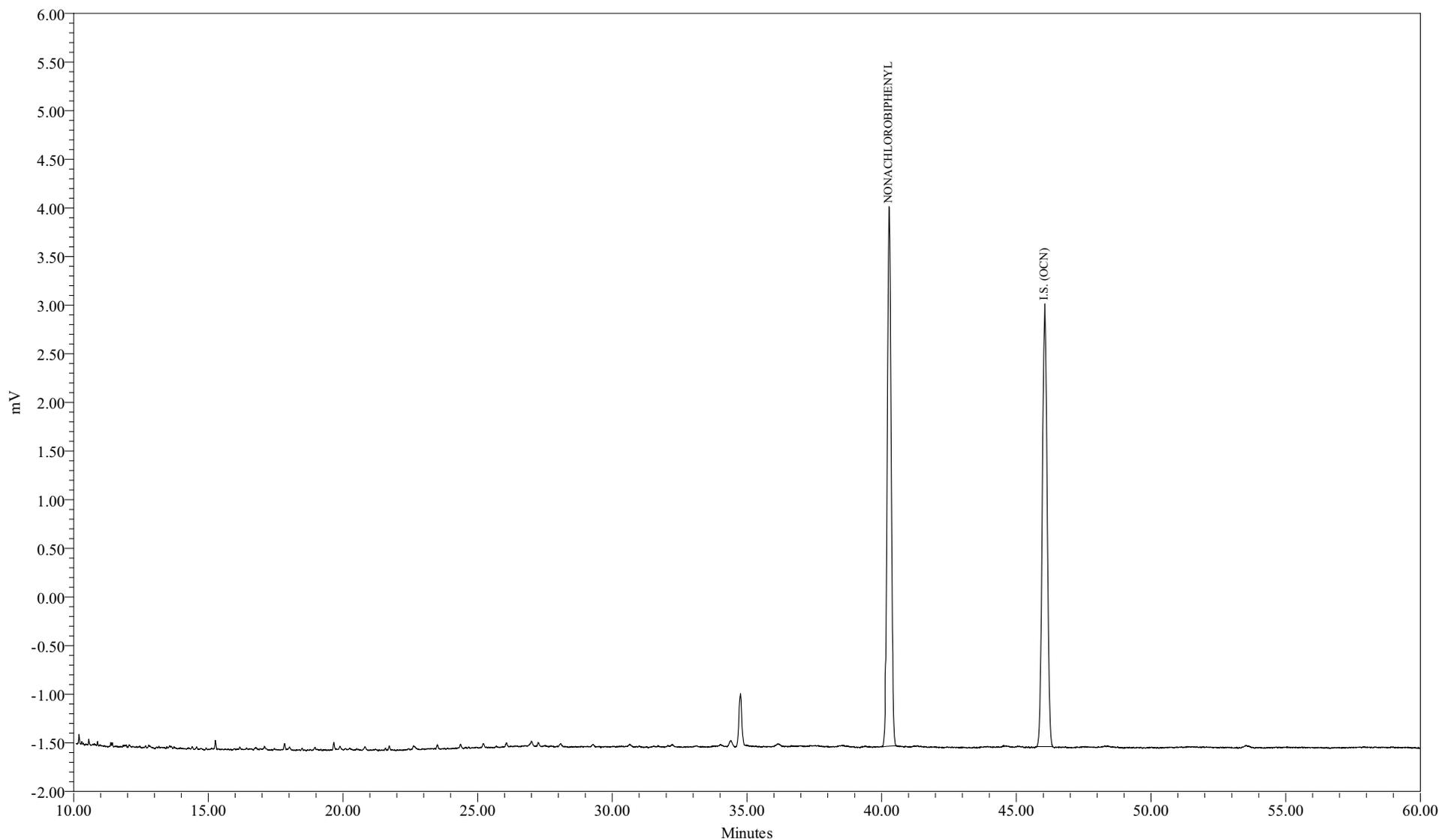
**Phone: (518) 346-4592 Fax: (518) 381-6055**

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Sample Name: SS0120A Sample Amount: 1  
Sample ID: Surr Std (207) 2.0 ng/mL Dilution: 1  
Date Acquired: 1/21/2015 1:51:45 AM EST Extract Volume: 1  
Project Name: GC24\_Jan\_2015 Date Processed: 1/21/2015 10:12:49 AM EST  
Sample Set Name: GC24\_LLCC\_012015 User Name: Amie Hamilton (AmieH)  
Processing Method: CSGB\_S\_2\_012015 Current Date: 1/21/2015  
Run Time: 60.0 Minutes Current Time: 4:11:16 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-1126-15 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | NONACHLOROBIPHENYL                | 40.282            | 6033             | 2.000                   | 2.000                | 0.973526                    |
| 2 | I.S. (OCN)                        | 46.049            | 56328            | 18.180                  | 18.180               | 3098.348979                 |



Sample Name: SS0120B  
Sample ID: Surr Std (207) 20.0 ng/mL  
Date Acquired: 1/21/2015 2:57:30 AM EST

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB S 20 012015  
LIMS File ID: GC24-1126-16 [m]

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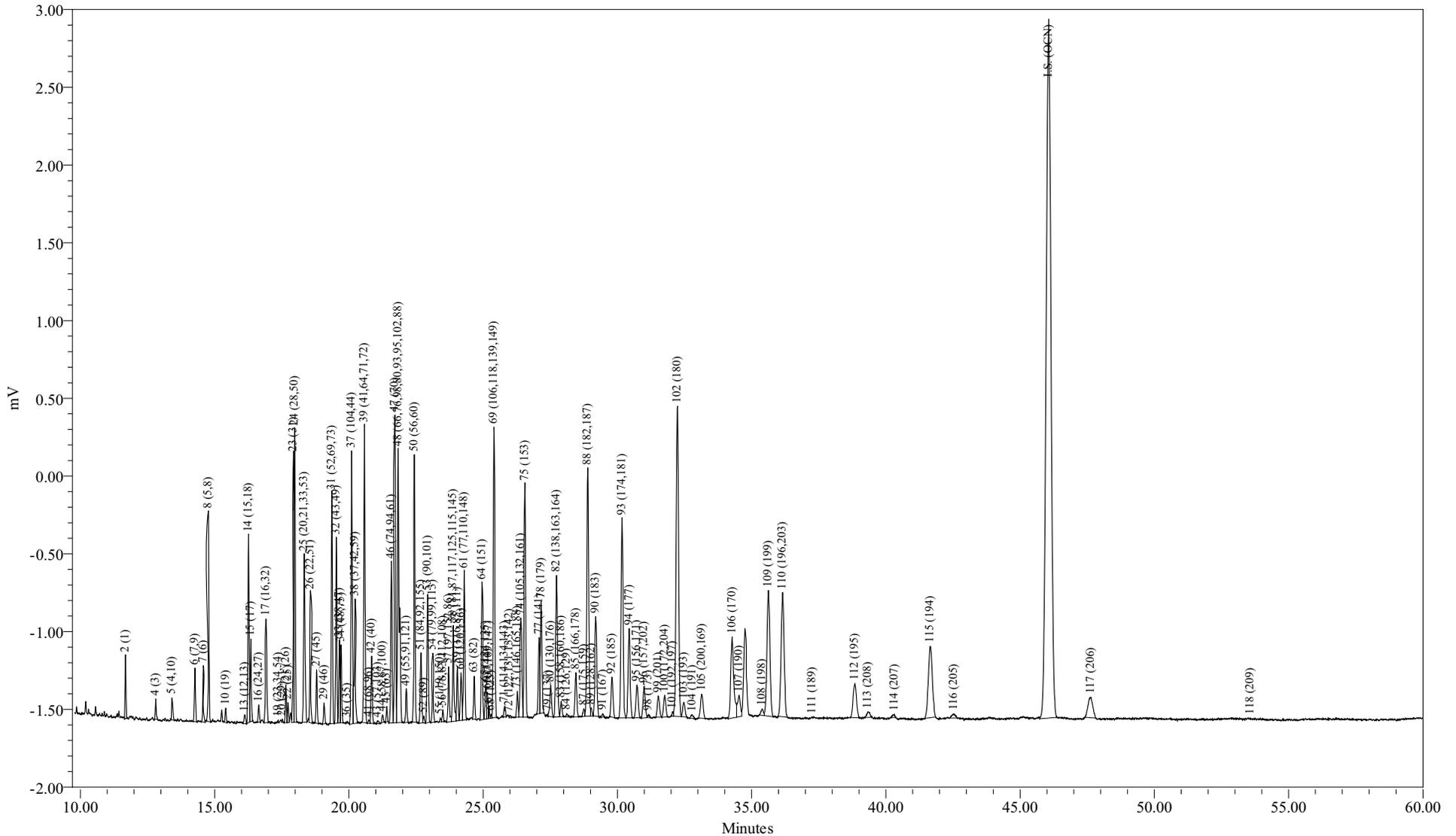
**Phone: (518) 346-4592 Fax: (518) 381-6055**

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Sample Name: SS0120B Sample Amount: 1  
Sample ID: Surr Std (207) 20.0 ng/mL Dilution: 1  
Date Acquired: 1/21/2015 2:57:30 AM EST Extract Volume: 1  
Project Name: GC24\_Jan\_2015 Date Processed: 1/21/2015 10:14:14 AM EST  
Sample Set Name: GC24\_LLCC\_012015 User Name: Amie Hamilton (AmieH)  
Processing Method: CSGB\_S\_20\_012015 Current Date: 1/21/2015  
Run Time: 60.0 Minutes Current Time: 4:11:17 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC24-1126-16 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCBIUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | NONACHLOROBIPHENYL               | 40.274            | 56451            | 20.000                  | 20.000               | 0.902933                    |
| 2 | I.S. (OCN)                       | 46.060            | 56831            | 18.180                  | 18.180               | 3126.001730                 |



Sample Name: CCCS0120A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 1/21/2015 5:09:03 AM EST

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1126-18 [m]

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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CCCS0120A                | Sample Amount:  | 1                        |
| Sample ID:         | CCC Std 122 ng/mL        | Dilution:       | 1                        |
| Date Acquired:     | 1/21/2015 5:09:03 AM EST | Extract Volume: | 1                        |
| Project Name:      | GC24_Jan_2015            | Date Processed: | 1/21/2015 3:59:54 PM EST |
| Sample Set Name:   | GC24_LLCC_012015         | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | CSGB_LLIX_012015         | Current Date:   | 1/21/2015                |
| Run Time:          | 60.0 Minutes             | Current Time:   | 4:12:42 PM US/Eastern    |
| Report Name:       | CSGB_ChkStd_rpt_ng_mL    | LIMS File ID:   | GC24-1126-18 [m]         |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ng/mL |
|----|-----------------------------------|-------------------|------------------|-------------------------|------------------------|
| 1  | 2 (1)                             | 11.683            | 770              | 8.724                   | 8.724                  |
| 2  | 4 (3)                             | 12.807            | 296              | 6.053                   | 6.053                  |
| 3  | 5 (4,10)                          | 13.415            | 430              | 2.257                   | 2.257                  |
| 4  | 6 (7,9)                           | 14.266            | 1019             | 0.784                   | 0.784                  |
| 5  | 7 (6)                             | 14.579            | 900              | 1.381                   | 1.381                  |
| 6  | 8 (5,8)                           | 14.768            | 3521             | 10.420                  | 10.420                 |
| 7  | 10 (19)                           | 15.411            | 253              | 0.267                   | 0.267                  |
| 8  | 13 (12,13)                        | 16.122            | 218              | 0.219                   | 0.219                  |
| 9  | 14 (15,18)                        | 16.263            | 3490             | 3.147                   | 3.147                  |
| 10 | 15 (17)                           | 16.350            | 1412             | 2.827                   | 2.827                  |
| 11 | 16 (24,27)                        | 16.648            | 309              | 0.205                   | 0.205                  |
| 12 | 17 (16,32)                        | 16.908            | 2793             | 3.134                   | 3.134                  |
| 13 | 19 (23,34,54)                     | 17.372            | 34               | 0.031                   | 0.031                  |
| 14 | 20 (29)                           | 17.521            | 51               | 0.046                   | 0.046                  |
| 15 | 21 (26)                           | 17.655            | 692              | 0.641                   | 0.641                  |
| 16 | 22 (25)                           | 17.735            | 348              | 0.257                   | 0.257                  |
| 17 | 23 (31)                           | 17.936            | 4671             | 3.281                   | 3.281                  |
| 18 | 24 (28,50)                        | 17.984            | 5229             | 3.254                   | 3.254                  |
| 19 | 25 (20,21,33,53)                  | 18.339            | 3890             | 3.173                   | 3.173                  |
| 20 | 26 (22,51)                        | 18.571            | 2478             | 2.196                   | 2.196                  |
| 21 | 27 (45)                           | 18.800            | 988              | 0.771                   | 0.771                  |
| 22 | 29 (46)                           | 19.077            | 398              | 0.350                   | 0.350                  |
| 23 | 31 (52,69,73)                     | 19.364            | 4488             | 4.340                   | 4.340                  |
| 24 | 32 (43,49)                        | 19.532            | 3642             | 1.798                   | 1.798                  |
| 25 | 33 (38,47)                        | 19.648            | 1624             | 0.576                   | 0.576                  |
| 26 | 34 (48,75)                        | 19.708            | 1518             | 0.776                   | 0.776                  |
| 27 | 36 (35)                           | 19.936            | 44               | 0.053                   | 0.053                  |
| 28 | 37 (104,44)                       | 20.105            | 5475             | 3.498                   | 3.498                  |
| 29 | 38 (37,42,59)                     | 20.233            | 3013             | 2.484                   | 2.484                  |

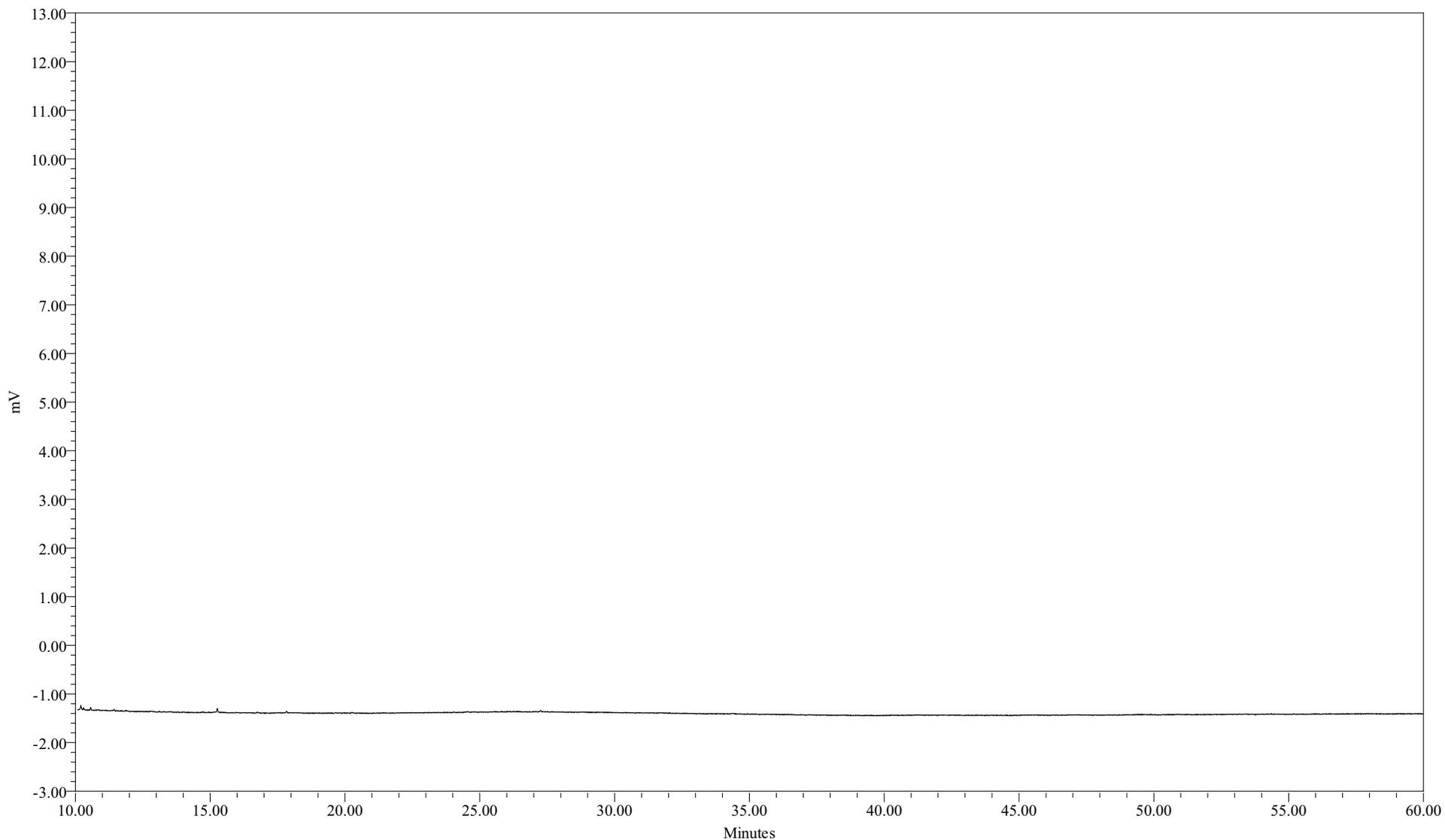
12

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ng/mL |
|----|-----------------------------------|-------------------|------------------|-------------------------|------------------------|
| 30 | 39 (41,64,71,72)                  | 20.577            | 5978             | 3.040                   | 3.040                  |
| 31 | 41 (68,96)                        | 20.736            | 74               | 0.059                   | 0.059                  |
| 32 | 42 (40)                           | 20.846            | 1336             | 0.850                   | 0.850                  |
| 33 | 43 (57,103)                       | 21.068            | 87               | 0.051                   | 0.051                  |
| 34 | 44 (58,67,100)                    | 21.250            | 165              | 0.072                   | 0.072                  |
| 35 | 45 (63)                           | 21.414            | 276              | 0.134                   | 0.134                  |
| 36 | 46 (74,94,61)                     | 21.582            | 3318             | 1.132                   | 1.132                  |
| 37 | 47 (70)                           | 21.718            | 6144             | 2.627                   | 2.627                  |
| 38 | 48 (66,76,98,80,93,95,102,88)     | 21.835            | 7944             | 5.115                   | 5.115                  |
| 39 | 49 (55,91,121)                    | 22.137            | 705              | 0.434                   | 0.434                  |
| 40 | 50 (56,60)                        | 22.440            | 5366             | 2.361                   | 2.361                  |
| 41 | 51 (84,92,155)                    | 22.684            | 1617             | 1.831                   | 1.831                  |
| 42 | 52 (89)                           | 22.790            | 135              | 0.086                   | 0.086                  |
| 43 | 53 (90,101)                       | 22.933            | 2743             | 1.377                   | 1.377                  |
| 44 | 54 (79,99,113)                    | 23.126            | 1406             | 0.471                   | 0.471                  |
| 45 | 55 (119,150)                      | 23.402            | 70               | 0.017                   | 0.017                  |
| 46 | 56 (78,83,112,108)                | 23.503            | 236              | 0.140                   | 0.140                  |
| 47 | 57 (97,152,86)                    | 23.714            | 1267             | 0.510                   | 0.510                  |
| 48 | 58 (81,87,117,125,115,145)        | 23.890            | 2181             | 1.023                   | 1.023                  |
| 49 | 59 (116,85,111)                   | 24.042            | 1159             | 0.453                   | 0.453                  |
| 50 | 60 (120,136)                      | 24.175            | 1173             | 0.538                   | 0.538                  |
| 51 | 61 (77,110,148)                   | 24.294            | 3237             | 1.704                   | 1.704                  |
| 52 | 63 (82)                           | 24.667            | 893              | 0.396                   | 0.396                  |
| 53 | 64 (151)                          | 24.956            | 2939             | 1.351                   | 1.351                  |
| 54 | 65 (124,135)                      | 25.094            | 788              | 0.216                   | 0.216                  |
| 55 | 66 (144)                          | 25.157            | 544              | 0.437                   | 0.437                  |
| 56 | 67 (107,109,147)                  | 25.207            | 203              | 0.113                   | 0.113                  |
| 57 | 68 (123)                          | 25.294            | 67               | 0.030                   | 0.030                  |
| 58 | 69 (106,118,139,149)              | 25.404            | 6986             | 2.897                   | 2.897                  |
| 59 | 71 (114,134,143)                  | 25.800            | 254              | 0.114                   | 0.114                  |
| 60 | 72 (122,131,133,142)              | 25.981            | 42               | 0.013                   | 0.013                  |
| 61 | 73 (146,165,188)                  | 26.272            | 586              | 0.248                   | 0.248                  |
| 62 | 74 (105,132,161)                  | 26.408            | 3014             | 0.966                   | 0.966                  |
| 63 | 75 (153)                          | 26.557            | 5832             | 1.927                   | 1.927                  |
| 64 | 77 (141)                          | 27.086            | 1750             | 1.028                   | 1.028                  |
| 65 | 78 (179)                          | 27.161            | 2902             | 1.295                   | 1.295                  |
| 66 | 79 (137)                          | 27.415            | 43               | 0.061                   | 0.061                  |
| 67 | 80 (130,176)                      | 27.519            | 913              | 0.220                   | 0.220                  |
| 68 | 82 (138,163,164)                  | 27.735            | 4444             | 1.614                   | 1.614                  |
| 69 | 83 (158,160,186)                  | 27.908            | 383              | 0.144                   | 0.144                  |
| 70 | 84 (126,129)                      | 28.115            | 60               | 0.008                   | 0.008                  |
| 71 | 85 (166,178)                      | 28.453            | 1270             | 0.933                   | 0.933                  |
| 72 | 87 (175,159)                      | 28.748            | 191              | 0.140                   | 0.140                  |

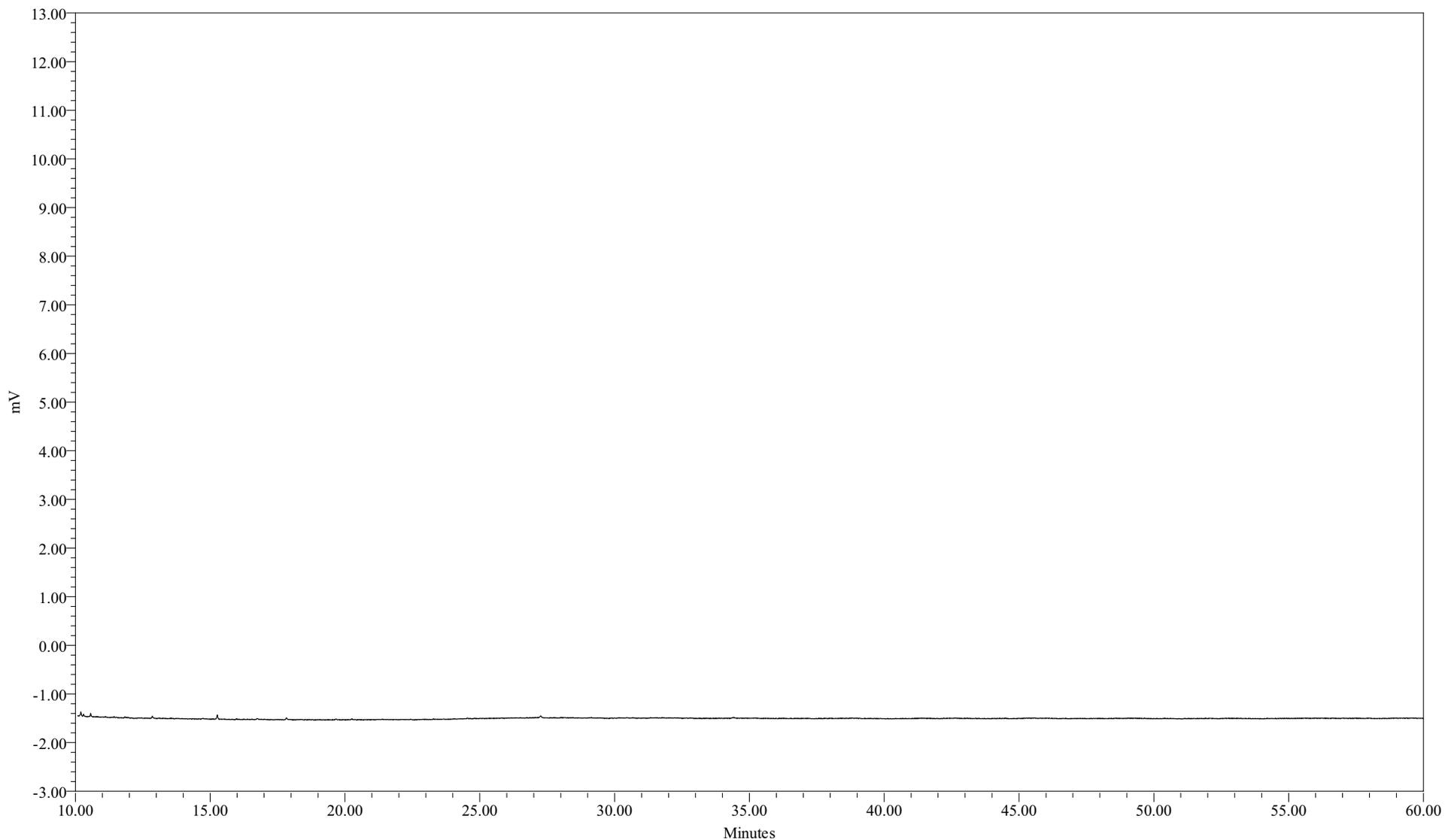
**Peak Results**

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ng/mL |
|-----|-----------------------------------|-------------------|------------------|-------------------------|------------------------|
| 73  | 88 (182,187)                      | 28.896            | 7779             | 2.867                   | 2.867                  |
| 74  | 89 (128,162)                      | 29.025            | 168              | 0.049                   | 0.049                  |
| 75  | 90 (183)                          | 29.195            | 3016             | 1.206                   | 1.206                  |
| 76  | 91 (167)                          | 29.454            | 79               | 0.046                   | 0.046                  |
| 77  | 92 (185)                          | 29.795            | 1283             | 0.358                   | 0.358                  |
| 78  | 93 (174,181)                      | 30.173            | 6865             | 2.612                   | 2.612                  |
| 79  | 94 (177)                          | 30.438            | 2990             | 1.306                   | 1.306                  |
| 80  | 95 (156,171)                      | 30.728            | 1213             | 0.523                   | 0.523                  |
| 81  | 96 (157,202)                      | 30.994            | 1146             | 0.068                   | 0.068                  |
| 82  | 98 (173)                          | 31.154            | 76               | 0.031                   | 0.031                  |
| 83  | 99 (201)                          | 31.519            | 772              | 0.335                   | 0.335                  |
| 84  | 100 (172,204)                     | 31.763            | 799              | 0.390                   | 0.390                  |
| 85  | 101 (192,197)                     | 32.053            | 101              | 0.077                   | 0.077                  |
| 86  | 102 (180)                         | 32.238            | 12641            | 4.144                   | 4.144                  |
| 87  | 103 (193)                         | 32.477            | 534              | 0.267                   | 0.267                  |
| 88  | 104 (191)                         | 32.789            | 140              | 0.069                   | 0.069                  |
| 89  | 105 (200,169)                     | 33.142            | 1008             | 0.395                   | 0.395                  |
| 90  | 106 (170)                         | 34.275            | 4094             | 0.882                   | 0.882                  |
| 91  | 107 (190)                         | 34.532            | 1017             | 0.290                   | 0.290                  |
| 92  | 108 (198)                         | 35.391            | 253              | 0.080                   | 0.080                  |
| 93  | 109 (199)                         | 35.621            | 6191             | 3.586                   | 3.586                  |
| 94  | 110 (196,203)                     | 36.155            | 6177             | 3.195                   | 3.195                  |
| 95  | 111 (189)                         | 37.258            | 5                | 0.001                   | 0.001                  |
| 96  | 112 (195)                         | 38.843            | 1908             | 0.386                   | 0.386                  |
| 97  | 113 (208)                         | 39.331            | 285              | 0.184                   | 0.184                  |
| 98  | 114 (207)                         | 40.319            | 101              | 0.036                   | 0.036                  |
| 99  | 115 (194)                         | 41.650            | 4694             | 1.128                   | 1.128                  |
| 100 | 116 (205)                         | 42.531            | 238              | 0.087                   | 0.087                  |
| 101 | 117 (206)                         | 47.633            | 1601             | 0.442                   | 0.442                  |
| 102 | 118 (209)                         | 53.571            | 8                | 0.003                   | 0.003                  |
| Sum |                                   |                   |                  |                         | 130.16                 |



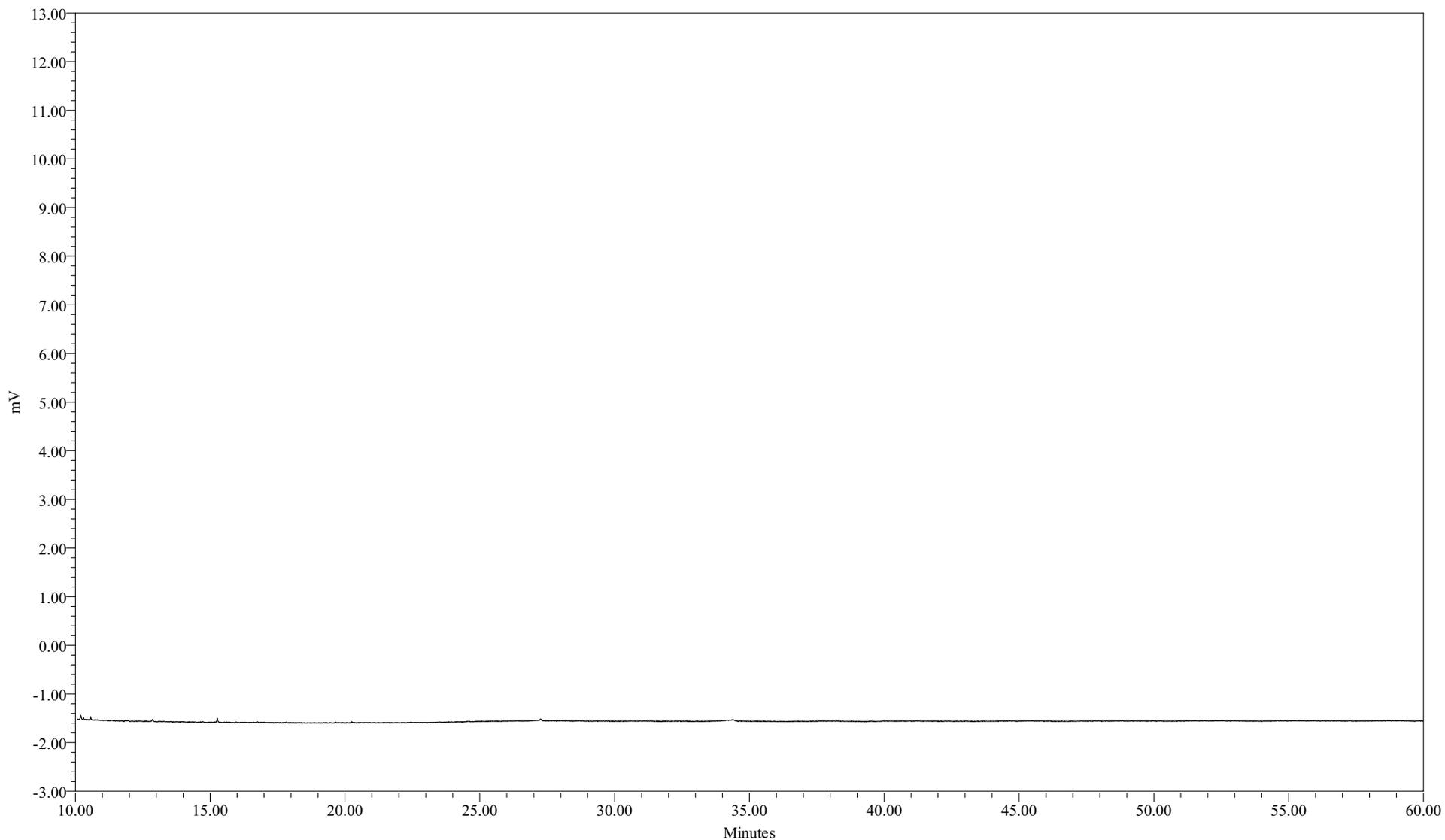
Sample Name: 150120B05  
Sample ID: HEXANE BLANK  
Date Acquired: 1/20/2015 2:53:55 PM EST

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB LL1X 012015  
LIMS File ID: GC24-1126-5 [A]



Sample Name: 150120B06  
Sample ID: HEXANE BLANK  
Date Acquired: 1/20/2015 10:34:28 PM EST

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB LL1X 012015  
LIMS File ID: GC24-1126-12 [A]



Sample Name: 150120B07  
Sample ID: HEXANE BLANK  
Date Acquired: 1/21/2015 4:03:16 AM EST

Sample Amount (L) : 1.0000  
Dilution: 1  
Processing Method: CSGB LL1X 012015  
LIMS File ID: GC24-1126-17 [A]







# Pace Analytical Services, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

| Peak Number<br>DB-1 | Peak Data         |                                 | Continuing Calibration<br>CCCS0611B<br>File ID: GC24-1178-5 |                       | Continuing Calibration<br>CCCS0611C<br>File ID: GC24-1178-7 |                       | Continuing Calibration<br>CCCS0612A<br>File ID: GC24-1179-3 |                       |
|---------------------|-------------------|---------------------------------|---|-----------------------|---|-----------------------|---|-----------------------|
|                     | Amount<br>(ng/ml) | Percent<br>Difference<br>Limits | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference |
| 7 (6)               | 1.35              | +/-30                           | 1.24  | -8.11                 | 1.21  | -10.0                 | 1.22  | -9.46                 |
| 37 (104,44)         | 3.06              | +/-15                           | 3.34  | 9.28                  | 3.34  | 9.00                  | 3.37  | 10.0                  |
| 47 (70)             | 2.42              | +/-15                           | 2.57  | 6.33                  | 2.56  | 5.94                  | 2.60  | 7.61                  |
| 93 (174,181)        | 2.28              | +/-15                           | 2.53  | 11.0                  | 2.51  | 10.2                  | 2.55  | 11.6                  |
| 102 (180)           | 4.35              | +/-15                           | 4.10  | -5.75                 | 4.02  | -7.67                 | 4.10  | -5.76                 |
| 116 (205)           | 0.0788            | +/-30                           | 0.0870  | 10.4                  | 0.0804  | 2.06                  | 0.0873  | 10.8                  |
| Total CCCS Conc.    | 122               | +/-15                           | 129   | 5.63                  | 127   | 3.74                  | 130   | 6.84                  |

### Chromatographic Resolution Data

| Standard  | PK 15 Height<br>(Congener 17) | 1/2 PK 15 Height<br>(Congener 17) | Valley Height (PK 14-PK 15) <sup>1</sup><br>(Congener 15, 18 - Congener 17) |
|-----------|-------------------------------|-----------------------------------|---|
| CCCS0611B | 497 uV                        | 249 uV                            | 135 uV  |
| CCCS0611C | 552 uV                        | 276 uV                            | 152 uV  |
| CCCS0612A | 566 uV                        | 283 uV                            | 159 uV  |

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

| Standard  | PK 74 Height<br>(Congener 105, 132, 161) | 1/3 PK 74 Height<br>(Congener 105, 132, 161) | Valley Height (PK 74 - PK 75) <sup>2</sup><br>(Congener 105, 132, 161 - Congener 153) |
|-----------|--|--|---|
| CCCS0611B | 607 uV                                   | 202 uV                                       | 49.0 uV   |
| CCCS0611C | 657 uV                                   | 219 uV                                       | 51.0 uV   |
| CCCS0612A | 693 uV                                   | 231 uV                                       | 54.0 uV   |

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Pace Analytical Services, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

| Peak Number<br>DB-1 | Peak Data         |                                 | Continuing Calibration<br>CCCS0612B<br>File ID: GC24-1179-6 |                       | Continuing Calibration |                       | Continuing Calibration |                       |
|---------------------|-------------------|---------------------------------|---|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
|                     | Amount<br>(ng/ml) | Percent<br>Difference<br>Limits | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)      | Percent<br>Difference | Amount<br>(ng/ml)      | Percent<br>Difference |
| 7 (6)               | 1.35              | +/-30                           | 1.17  | -13.6                 |                        |                       |                        |                       |
| 37 (104,44)         | 3.06              | +/-15                           | 3.28  | 7.34                  |                        |                       |                        |                       |
| 47 (70)             | 2.42              | +/-15                           | 2.53  | 4.49                  |                        |                       |                        |                       |
| 93 (174,181)        | 2.28              | +/-15                           | 2.52  | 10.7                  |                        |                       |                        |                       |
| 102 (180)           | 4.35              | +/-15                           | 3.97  | -8.66                 |                        |                       |                        |                       |
| 116 (205)           | 0.0788            | +/-30                           | 0.0749  | -4.95                 |                        |                       |                        |                       |
| Total CCCS Conc.    | 122               | +/-15                           | 126   | 3.25                  |                        |                       |                        |                       |

### Chromatographic Resolution Data

| Standard  | PK 15 Height<br>(Congener 17) | 1/2 PK 15 Height<br>(Congener 17) | Valley Height (PK 14-PK 15) <sup>1</sup><br>(Congener 15, 18 - Congener 17) |
|-----------|-------------------------------|-----------------------------------|---|
| CCCS0612B | 574 uV                        | 287 uV                            | 164 uV  |
|           |                               |                                   |   |
|           |                               |                                   |   |

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

| Standard  | PK 74 Height<br>(Congener 105, 132, 161) | 1/3 PK 74 Height<br>(Congener 105, 132, 161) | Valley Height (PK 74 - PK 75) <sup>2</sup><br>(Congener 105, 132, 161 - Congener 153) |
|-----------|--|--|---|
| CCCS0612B | 692 uV                                   | 231 uV                                       | 59.0 uV   |
|           |  |  |   |
|           |  |  |   |

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

# Pace Analytical Services, Inc.

## PCB CONTINUING CALIBRATION SUMMARY

122 ng/mL LOW LEVEL STANDARD

### Percent Difference Data

| Peak Number<br>DB-1 | Peak Data         |                                 | Continuing Calibration<br>CCCS0610A<br>File ID: GC24-1177-3 |                       | Continuing Calibration<br>CCCS0610B<br>File ID: GC24-1177-7 |                       | Continuing Calibration<br>CCCS0610C<br>File ID: GC24-1177-9 |                       |
|---------------------|-------------------|---------------------------------|---|-----------------------|---|-----------------------|---|-----------------------|
|                     | Amount<br>(ng/ml) | Percent<br>Difference<br>Limits | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference |
| 7 (6)               | 1.35              | +/-30                           | 1.29  | -4.27                 | 1.21  | -10.0                 | 1.21  | -10.4                 |
| 37 (104,44)         | 3.06              | +/-15                           | 3.49  | 14.1                  | 3.33  | 8.89                  | 3.29  | 7.60                  |
| 47 (70)             | 2.42              | +/-15                           | 2.71  | 12.0                  | 2.53  | 4.51                  | 2.54  | 5.12                  |
| 93 (174,181)        | 2.28              | +/-15                           | 2.62  | 14.9                  | 2.54  | 11.6                  | 2.52  | 10.6                  |
| 102 (180)           | 4.35              | +/-15                           | 4.29  | -1.28                 | 4.05  | -6.94                 | 4.01  | -7.92                 |
| 116 (205)           | 0.0788            | +/-30                           | 0.0769  | -2.43                 | 0.0740  | -6.13                 | 0.0880  | 11.7                  |
| Total CCCS Conc.    | 122               | +/-15                           | 136   | 11.2                  | 126   | 3.53                  | 126   | 3.42                  |

### Chromatographic Resolution Data

| Standard  | PK 15 Height<br>(Congener 17) | 1/2 PK 15 Height<br>(Congener 17) | Valley Height (PK 14-PK 15) <sup>1</sup><br>(Congener 15, 18 - Congener 17) |
|-----------|-------------------------------|-----------------------------------|---|
| CCCS0610A | 547 uV                        | 274 uV                            | 146 uV  |
| CCCS0610B | 520 uV                        | 260 uV                            | 160 uV  |
| CCCS0610C | 542 uV                        | 271 uV                            | 160 uV  |

1.) QC Criteria: Valley Height (PK 14 - PK 15) <= 1/2 Height of PK 15.

| Standard  | PK 74 Height<br>(Congener 105, 132, 161) | 1/3 PK 74 Height<br>(Congener 105, 132, 161) | Valley Height (PK 74 - PK 75) <sup>2</sup><br>(Congener 105, 132, 161 - Congener 153) |
|-----------|--|--|---|
| CCCS0610A | 651 uV                                   | 217 uV                                       | 59.0 uV   |
| CCCS0610B | 634 uV                                   | 211 uV                                       | 54.0 uV   |
| CCCS0610C | 671 uV                                   | 224 uV                                       | 51.0 uV   |

2.) QC Criteria: Valley Height (PK 74 - PK 75) <= 1/3 Height of PK 74.

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|    | Peak Number<br>DB-1           | Retention Time Window<br>CCCS0610A | CCCS0611B<br>File ID: GC24-1178-5 |      | CCCS0611C<br>File ID: GC24-1178-7 |      | Retention Time | Flag |
|----|-------------------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|    |                               |                                    | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 1  | 2 (1)                         | +/-0.07                            | 11.67                             |      | 11.67                             |      |                |      |
| 2  | 3 (2)                         | +/-0.07                            |                                   |      |                                   |      |                |      |
| 3  | 4 (3)                         | +/-0.07                            | 12.80                             |      | 12.80                             |      |                |      |
| 4  | 5 (4,10)                      | +/-0.07                            | 13.40                             |      | 13.41                             |      |                |      |
| 5  | 6 (7,9)                       | +/-0.07                            | 14.26                             |      | 14.26                             |      |                |      |
| 6  | 7 (6)                         | +/-0.07                            | 14.57                             |      | 14.57                             |      |                |      |
| 7  | 8 (5,8)                       | +/-0.07                            | 14.76                             |      | 14.76                             |      |                |      |
| 8  | 9 (14)                        | +/-0.07                            |                                   |      |                                   |      |                |      |
| 9  | 10 (19)                       | +/-0.07                            | 15.40                             |      | 15.40                             |      |                |      |
| 10 | 11 (30)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 11 | 12 (11)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 12 | 13 (12,13)                    | +/-0.07                            | 16.12                             |      | 16.11                             |      |                |      |
| 13 | 14 (15,18)                    | +/-0.07                            | 16.25                             |      | 16.25                             |      |                |      |
| 14 | 15 (17)                       | +/-0.07                            | 16.33                             |      | 16.33                             |      |                |      |
| 15 | 16 (24,27)                    | +/-0.07                            | 16.63                             |      | 16.63                             |      |                |      |
| 16 | 17 (16,32)                    | +/-0.07                            | 16.90                             |      | 16.89                             |      |                |      |
| 17 | 19 (23,34,54)                 | +/-0.07                            | 17.35                             |      | 17.32                             |      |                |      |
| 18 | 20 (29)                       | +/-0.07                            | 17.51                             |      | 17.49                             |      |                |      |
| 19 | 21 (26)                       | +/-0.07                            | 17.64                             |      | 17.64                             |      |                |      |
| 20 | 22 (25)                       | +/-0.07                            | 17.72                             |      | 17.72                             |      |                |      |
| 21 | 23 (31)                       | +/-0.07                            | 17.92                             |      | 17.92                             |      |                |      |
| 22 | 24 (28,50)                    | +/-0.07                            | 17.97                             |      | 17.97                             |      |                |      |
| 23 | 25 (20,21,33,53)              | +/-0.07                            | 18.32                             |      | 18.32                             |      |                |      |
| 24 | 26 (22,51)                    | +/-0.07                            | 18.56                             |      | 18.56                             |      |                |      |
| 25 | 27 (45)                       | +/-0.07                            | 18.78                             |      | 18.79                             |      |                |      |
| 26 | 28 (36)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 27 | 29 (46)                       | +/-0.07                            | 19.07                             |      | 19.06                             |      |                |      |
| 28 | 30 (39)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 29 | 31 (52,69,73)                 | +/-0.07                            | 19.35                             |      | 19.35                             |      |                |      |
| 30 | 32 (43,49)                    | +/-0.07                            | 19.52                             |      | 19.52                             |      |                |      |
| 31 | 33 (38,47)                    | +/-0.07                            | 19.63                             |      | 19.63                             |      |                |      |
| 32 | 34 (48,75)                    | +/-0.07                            | 19.69                             |      | 19.69                             |      |                |      |
| 33 | 35 (62,65)                    | +/-0.07                            |                                   |      |                                   |      |                |      |
| 34 | 36 (35)                       | +/-0.07                            | 19.92                             |      | 19.91                             |      |                |      |
| 35 | 37 (104,44)                   | +/-0.07                            | 20.09                             |      | 20.09                             |      |                |      |
| 36 | 38 (37,42,59)                 | +/-0.07                            | 20.22                             |      | 20.22                             |      |                |      |
| 37 | 39 (41,64,71,72)              | +/-0.07                            | 20.56                             |      | 20.56                             |      |                |      |
| 38 | 41 (68,96)                    | +/-0.07                            | 20.73                             |      | 20.72                             |      |                |      |
| 39 | 42 (40)                       | +/-0.07                            | 20.83                             |      | 20.83                             |      |                |      |
| 40 | 43 (57,103)                   | +/-0.07                            | 21.07                             |      | 21.07                             |      |                |      |
| 41 | 44 (58,67,100)                | +/-0.07                            | 21.24                             |      | 21.25                             |      |                |      |
| 42 | 45 (63)                       | +/-0.07                            | 21.39                             |      | 21.40                             |      |                |      |
| 43 | 46 (74,94,61)                 | +/-0.07                            | 21.57                             |      | 21.57                             |      |                |      |
| 44 | 47 (70)                       | +/-0.07                            | 21.70                             |      | 21.70                             |      |                |      |
| 45 | 48 (66,76,98,80,93,95,102,88) | +/-0.07                            | 21.82                             |      | 21.82                             |      |                |      |
| 46 | 49 (55,91,121)                | +/-0.07                            | 22.12                             |      | 22.12                             |      |                |      |
| 47 | 50 (56,60)                    | +/-0.07                            | 22.42                             |      | 22.42                             |      |                |      |
| 48 | 51 (84,92,155)                | +/-0.07                            | 22.67                             |      | 22.67                             |      |                |      |
| 49 | 52 (89)                       | +/-0.07                            | 22.78                             |      | 22.77                             |      |                |      |
| 50 | 53 (90,101)                   | +/-0.07                            | 22.92                             |      | 22.92                             |      |                |      |
| 51 | 54 (79,99,113)                | +/-0.07                            | 23.11                             |      | 23.11                             |      |                |      |
| 52 | 55 (119,150)                  | +/-0.07                            | 23.39                             |      | 23.39                             |      |                |      |
| 53 | 56 (78,83,112,108)            | +/-0.07                            | 23.49                             |      | 23.49                             |      |                |      |
| 54 | 57 (97,152,86)                | +/-0.07                            | 23.70                             |      | 23.70                             |      |                |      |
| 55 | 58 (81,87,117,125,115,145)    | +/-0.07                            | 23.87                             |      | 23.87                             |      |                |      |
| 56 | 59 (116,85,111)               | +/-0.07                            | 24.03                             |      | 24.02                             |      |                |      |

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|     | Peak Number<br>DB-1  | Retention Time Window<br>CCCS0610A | CCCS0611B<br>File ID: GC24-1178-5 |      | CCCS0611C<br>File ID: GC24-1178-7 |      | Retention Time | Flag |
|-----|----------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|     |                      |                                    | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 57  | 60 (120,136)         | +/-0.07                            | 24.16                             |      | 24.16                             |      |                |      |
| 58  | 61 (77,110,148)      | +/-0.07                            | 24.28                             |      | 24.28                             |      |                |      |
| 59  | 62 (154)             | +/-0.07                            |                                   |      |                                   |      |                |      |
| 60  | 63 (82)              | +/-0.07                            | 24.65                             |      | 24.65                             |      |                |      |
| 61  | 64 (151)             | +/-0.07                            | 24.94                             |      | 24.94                             |      |                |      |
| 62  | 65 (124,135)         | +/-0.07                            | 25.08                             |      | 25.08                             |      |                |      |
| 63  | 66 (144)             | +/-0.07                            | 25.13                             |      | 25.13                             |      |                |      |
| 64  | 67 (107,109,147)     | +/-0.07                            | 25.19                             |      | 25.20                             |      |                |      |
| 65  | 68 (123)             | +/-0.07                            | 25.30                             |      | 25.32                             |      |                |      |
| 66  | 69 (106,118,139,149) | +/-0.07                            | 25.39                             |      | 25.39                             |      |                |      |
| 67  | 70 (140)             | +/-0.07                            |                                   |      |                                   |      |                |      |
| 68  | 71 (114,134,143)     | +/-0.07                            | 25.78                             |      | 25.79                             |      |                |      |
| 69  | 72 (122,131,133,142) | +/-0.07                            | 25.97                             |      | 25.98                             |      |                |      |
| 70  | 73 (146,165,188)     | +/-0.07                            | 26.26                             |      | 26.26                             |      |                |      |
| 71  | 74 (105,132,161)     | +/-0.07                            | 26.38                             |      | 26.38                             |      |                |      |
| 72  | 75 (153)             | +/-0.07                            | 26.54                             |      | 26.53                             |      |                |      |
| 73  | 76 (127,168,184)     | +/-0.07                            |                                   |      |                                   |      |                |      |
| 74  | 77 (141)             | +/-0.07                            | 27.06                             |      | 27.07                             |      |                |      |
| 75  | 78 (179)             | +/-0.07                            | 27.14                             |      | 27.14                             |      |                |      |
| 76  | 79 (137)             | +/-0.07                            | 27.34                             |      | 27.36                             |      |                |      |
| 77  | 80 (130,176)         | +/-0.07                            | 27.50                             |      | 27.50                             |      |                |      |
| 78  | 82 (138,163,164)     | +/-0.07                            | 27.71                             |      | 27.72                             |      |                |      |
| 79  | 83 (158,160,186)     | +/-0.07                            | 27.89                             |      | 27.89                             |      |                |      |
| 80  | 84 (126,129)         | +/-0.07                            | 28.11                             |      | 28.08                             |      |                |      |
| 81  | 85 (166,178)         | +/-0.07                            | 28.43                             |      | 28.43                             |      |                |      |
| 82  | 87 (175,159)         | +/-0.07                            | 28.74                             |      | 28.74                             |      |                |      |
| 83  | 88 (182,187)         | +/-0.07                            | 28.87                             |      | 28.87                             |      |                |      |
| 84  | 89 (128,162)         | +/-0.07                            | 29.00                             |      | 28.99                             |      |                |      |
| 85  | 90 (183)             | +/-0.07                            | 29.18                             |      | 29.18                             |      |                |      |
| 86  | 91 (167)             | +/-0.07                            | 29.42                             |      | 29.44                             |      |                |      |
| 87  | 92 (185)             | +/-0.07                            | 29.77                             |      | 29.77                             |      |                |      |
| 88  | 93 (174,181)         | +/-0.07                            | 30.15                             |      | 30.15                             |      |                |      |
| 89  | 94 (177)             | +/-0.07                            | 30.41                             |      | 30.41                             |      |                |      |
| 90  | 95 (156,171)         | +/-0.07                            | 30.70                             |      | 30.70                             |      |                |      |
| 91  | 96 (157,202)         | +/-0.07                            | 30.97                             |      | 30.96                             |      |                |      |
| 92  | 98 (173)             | +/-0.07                            | 31.15                             |      | 31.13                             |      |                |      |
| 93  | 99 (201)             | +/-0.07                            | 31.50                             |      | 31.51                             |      |                |      |
| 94  | 100 (172,204)        | +/-0.07                            | 31.72                             |      | 31.73                             |      |                |      |
| 95  | 101 (192,197)        | +/-0.07                            | 32.08                             |      | 32.03                             |      |                |      |
| 96  | 102 (180)            | +/-0.07                            | 32.20                             |      | 32.20                             |      |                |      |
| 97  | 103 (193)            | +/-0.07                            | 32.44                             |      | 32.44                             |      |                |      |
| 98  | 104 (191)            | +/-0.07                            | 32.73                             |      | 32.73                             |      |                |      |
| 99  | 105 (200,169)        | +/-0.07                            | 33.11                             |      | 33.11                             |      |                |      |
| 100 | 106 (170)            | +/-0.07                            | 34.23                             |      | 34.24                             |      |                |      |
| 101 | 107 (190)            | +/-0.07                            | 34.50                             |      | 34.49                             |      |                |      |
| 102 | 108 (198)            | +/-0.07                            | 35.36                             |      | 35.38                             |      |                |      |
| 103 | 109 (199)            | +/-0.07                            | 35.58                             |      | 35.58                             |      |                |      |
| 104 | 110 (196,203)        | +/-0.07                            | 36.11                             |      | 36.11                             |      |                |      |
| 105 | 111 (189)            | +/-0.07                            | 37.23                             |      | 37.27                             |      |                |      |
| 106 | 112 (195)            | +/-0.07                            | 38.80                             |      | 38.80                             |      |                |      |
| 107 | 113 (208)            | +/-0.07                            | 39.32                             |      | 39.31                             |      |                |      |
| 108 | 114 (207)            | +/-0.07                            | 40.24                             |      | 40.24                             |      |                |      |
| 109 | 115 (194)            | +/-0.07                            | 41.60                             |      | 41.60                             |      |                |      |
| 110 | 116 (205)            | +/-0.07                            | 42.46                             |      | 42.46                             |      |                |      |
| 111 | 117 (206)            | +/-0.07                            | 47.56                             |      | 47.55                             |      |                |      |
| 112 | 118 (209)            | +/-0.07                            | 53.56                             |      | 53.54                             |      |                |      |

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|    | Peak Number<br>DB-1           | Retention Time Window<br>CCCS0610A | CCCS0612A<br>File ID: GC24-1179-3 |      | CCCS0612B<br>File ID: GC24-1179-6 |      | Retention Time | Flag |
|----|-------------------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|    |                               |                                    | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 1  | 2 (1)                         | +/-0.07                            | 11.67                             |      | 11.67                             |      |                |      |
| 2  | 3 (2)                         | +/-0.07                            |                                   |      |                                   |      |                |      |
| 3  | 4 (3)                         | +/-0.07                            | 12.80                             |      | 12.80                             |      |                |      |
| 4  | 5 (4,10)                      | +/-0.07                            | 13.40                             |      | 13.41                             |      |                |      |
| 5  | 6 (7,9)                       | +/-0.07                            | 14.26                             |      | 14.26                             |      |                |      |
| 6  | 7 (6)                         | +/-0.07                            | 14.57                             |      | 14.57                             |      |                |      |
| 7  | 8 (5,8)                       | +/-0.07                            | 14.76                             |      | 14.76                             |      |                |      |
| 8  | 9 (14)                        | +/-0.07                            |                                   |      |                                   |      |                |      |
| 9  | 10 (19)                       | +/-0.07                            | 15.40                             |      | 15.39                             |      |                |      |
| 10 | 11 (30)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 11 | 12 (11)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 12 | 13 (12,13)                    | +/-0.07                            | 16.12                             |      | 16.11                             |      |                |      |
| 13 | 14 (15,18)                    | +/-0.07                            | 16.25                             |      | 16.25                             |      |                |      |
| 14 | 15 (17)                       | +/-0.07                            | 16.33                             |      | 16.33                             |      |                |      |
| 15 | 16 (24,27)                    | +/-0.07                            | 16.63                             |      | 16.63                             |      |                |      |
| 16 | 17 (16,32)                    | +/-0.07                            | 16.89                             |      | 16.89                             |      |                |      |
| 17 | 19 (23,34,54)                 | +/-0.07                            | 17.35                             |      | 17.35                             |      |                |      |
| 18 | 20 (29)                       | +/-0.07                            | 17.51                             |      | 17.49                             |      |                |      |
| 19 | 21 (26)                       | +/-0.07                            | 17.64                             |      | 17.64                             |      |                |      |
| 20 | 22 (25)                       | +/-0.07                            | 17.72                             |      | 17.72                             |      |                |      |
| 21 | 23 (31)                       | +/-0.07                            | 17.92                             |      | 17.92                             |      |                |      |
| 22 | 24 (28,50)                    | +/-0.07                            | 17.97                             |      | 17.97                             |      |                |      |
| 23 | 25 (20,21,33,53)              | +/-0.07                            | 18.32                             |      | 18.32                             |      |                |      |
| 24 | 26 (22,51)                    | +/-0.07                            | 18.56                             |      | 18.56                             |      |                |      |
| 25 | 27 (45)                       | +/-0.07                            | 18.79                             |      | 18.79                             |      |                |      |
| 26 | 28 (36)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 27 | 29 (46)                       | +/-0.07                            | 19.06                             |      | 19.07                             |      |                |      |
| 28 | 30 (39)                       | +/-0.07                            |                                   |      |                                   |      |                |      |
| 29 | 31 (52,69,73)                 | +/-0.07                            | 19.35                             |      | 19.35                             |      |                |      |
| 30 | 32 (43,49)                    | +/-0.07                            | 19.51                             |      | 19.52                             |      |                |      |
| 31 | 33 (38,47)                    | +/-0.07                            | 19.63                             |      | 19.63                             |      |                |      |
| 32 | 34 (48,75)                    | +/-0.07                            | 19.69                             |      | 19.70                             |      |                |      |
| 33 | 35 (62,65)                    | +/-0.07                            |                                   |      |                                   |      |                |      |
| 34 | 36 (35)                       | +/-0.07                            | 19.89                             |      | 19.89                             |      |                |      |
| 35 | 37 (104,44)                   | +/-0.07                            | 20.09                             |      | 20.09                             |      |                |      |
| 36 | 38 (37,42,59)                 | +/-0.07                            | 20.22                             |      | 20.22                             |      |                |      |
| 37 | 39 (41,64,71,72)              | +/-0.07                            | 20.56                             |      | 20.56                             |      |                |      |
| 38 | 41 (68,96)                    | +/-0.07                            | 20.72                             |      | 20.73                             |      |                |      |
| 39 | 42 (40)                       | +/-0.07                            | 20.83                             |      | 20.83                             |      |                |      |
| 40 | 43 (57,103)                   | +/-0.07                            | 21.06                             |      | 21.09                             |      |                |      |
| 41 | 44 (58,67,100)                | +/-0.07                            | 21.24                             |      | 21.23                             |      |                |      |
| 42 | 45 (63)                       | +/-0.07                            | 21.40                             |      | 21.40                             |      |                |      |
| 43 | 46 (74,94,61)                 | +/-0.07                            | 21.57                             |      | 21.57                             |      |                |      |
| 44 | 47 (70)                       | +/-0.07                            | 21.70                             |      | 21.70                             |      |                |      |
| 45 | 48 (66,76,98,80,93,95,102,88) | +/-0.07                            | 21.81                             |      | 21.82                             |      |                |      |
| 46 | 49 (55,91,121)                | +/-0.07                            | 22.12                             |      | 22.12                             |      |                |      |
| 47 | 50 (56,60)                    | +/-0.07                            | 22.42                             |      | 22.42                             |      |                |      |
| 48 | 51 (84,92,155)                | +/-0.07                            | 22.67                             |      | 22.66                             |      |                |      |
| 49 | 52 (89)                       | +/-0.07                            | 22.77                             |      | 22.77                             |      |                |      |
| 50 | 53 (90,101)                   | +/-0.07                            | 22.92                             |      | 22.92                             |      |                |      |
| 51 | 54 (79,99,113)                | +/-0.07                            | 23.11                             |      | 23.11                             |      |                |      |
| 52 | 55 (119,150)                  | +/-0.07                            | 23.39                             |      | 23.39                             |      |                |      |
| 53 | 56 (78,83,112,108)            | +/-0.07                            | 23.48                             |      | 23.49                             |      |                |      |
| 54 | 57 (97,152,86)                | +/-0.07                            | 23.70                             |      | 23.70                             |      |                |      |
| 55 | 58 (81,87,117,125,115,145)    | +/-0.07                            | 23.87                             |      | 23.87                             |      |                |      |
| 56 | 59 (116,85,111)               | +/-0.07                            | 24.02                             |      | 24.02                             |      |                |      |

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|     | Peak Number<br>DB-1  | Retention Time Window<br>CCCS0610A | CCCS0612A<br>File ID: GC24-1179-3 |      | CCCS0612B<br>File ID: GC24-1179-6 |      | Retention Time | Flag |
|-----|----------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|     |                      |                                    | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 57  | 60 (120,136)         | +/-0.07                            | 24.16                             |      | 24.16                             |      |                |      |
| 58  | 61 (77,110,148)      | +/-0.07                            | 24.28                             |      | 24.28                             |      |                |      |
| 59  | 62 (154)             | +/-0.07                            |                                   |      |                                   |      |                |      |
| 60  | 63 (82)              | +/-0.07                            | 24.65                             |      | 24.65                             |      |                |      |
| 61  | 64 (151)             | +/-0.07                            | 24.94                             |      | 24.94                             |      |                |      |
| 62  | 65 (124,135)         | +/-0.07                            | 25.08                             |      | 25.08                             |      |                |      |
| 63  | 66 (144)             | +/-0.07                            | 25.13                             |      | 25.14                             |      |                |      |
| 64  | 67 (107,109,147)     | +/-0.07                            | 25.20                             |      | 25.19                             |      |                |      |
| 65  | 68 (123)             | +/-0.07                            | 25.29                             |      | 25.29                             |      |                |      |
| 66  | 69 (106,118,139,149) | +/-0.07                            | 25.39                             |      | 25.39                             |      |                |      |
| 67  | 70 (140)             | +/-0.07                            |                                   |      |                                   |      |                |      |
| 68  | 71 (114,134,143)     | +/-0.07                            | 25.78                             |      | 25.78                             |      |                |      |
| 69  | 72 (122,131,133,142) | +/-0.07                            | 25.95                             |      | 25.97                             |      |                |      |
| 70  | 73 (146,165,188)     | +/-0.07                            | 26.26                             |      | 26.26                             |      |                |      |
| 71  | 74 (105,132,161)     | +/-0.07                            | 26.39                             |      | 26.39                             |      |                |      |
| 72  | 75 (153)             | +/-0.07                            | 26.54                             |      | 26.54                             |      |                |      |
| 73  | 76 (127,168,184)     | +/-0.07                            |                                   |      |                                   |      |                |      |
| 74  | 77 (141)             | +/-0.07                            | 27.06                             |      | 27.07                             |      |                |      |
| 75  | 78 (179)             | +/-0.07                            | 27.14                             |      | 27.14                             |      |                |      |
| 76  | 79 (137)             | +/-0.07                            | 27.33                             |      | 27.35                             |      |                |      |
| 77  | 80 (130,176)         | +/-0.07                            | 27.50                             |      | 27.50                             |      |                |      |
| 78  | 82 (138,163,164)     | +/-0.07                            | 27.71                             |      | 27.72                             |      |                |      |
| 79  | 83 (158,160,186)     | +/-0.07                            | 27.89                             |      | 27.89                             |      |                |      |
| 80  | 84 (126,129)         | +/-0.07                            | 28.11                             |      | 28.09                             |      |                |      |
| 81  | 85 (166,178)         | +/-0.07                            | 28.43                             |      | 28.43                             |      |                |      |
| 82  | 87 (175,159)         | +/-0.07                            | 28.73                             |      | 28.73                             |      |                |      |
| 83  | 88 (182,187)         | +/-0.07                            | 28.87                             |      | 28.87                             |      |                |      |
| 84  | 89 (128,162)         | +/-0.07                            | 29.00                             |      | 28.99                             |      |                |      |
| 85  | 90 (183)             | +/-0.07                            | 29.17                             |      | 29.17                             |      |                |      |
| 86  | 91 (167)             | +/-0.07                            | 29.42                             |      | 29.44                             |      |                |      |
| 87  | 92 (185)             | +/-0.07                            | 29.78                             |      | 29.77                             |      |                |      |
| 88  | 93 (174,181)         | +/-0.07                            | 30.15                             |      | 30.14                             |      |                |      |
| 89  | 94 (177)             | +/-0.07                            | 30.40                             |      | 30.41                             |      |                |      |
| 90  | 95 (156,171)         | +/-0.07                            | 30.70                             |      | 30.71                             |      |                |      |
| 91  | 96 (157,202)         | +/-0.07                            | 30.96                             |      | 30.97                             |      |                |      |
| 92  | 98 (173)             | +/-0.07                            | 31.11                             |      | 31.14                             |      |                |      |
| 93  | 99 (201)             | +/-0.07                            | 31.50                             |      | 31.50                             |      |                |      |
| 94  | 100 (172,204)        | +/-0.07                            | 31.72                             |      | 31.73                             |      |                |      |
| 95  | 101 (192,197)        | +/-0.07                            | 32.08                             |      | 32.02                             |      |                |      |
| 96  | 102 (180)            | +/-0.07                            | 32.20                             |      | 32.20                             |      |                |      |
| 97  | 103 (193)            | +/-0.07                            | 32.44                             |      | 32.44                             |      |                |      |
| 98  | 104 (191)            | +/-0.07                            | 32.76                             |      | 32.76                             |      |                |      |
| 99  | 105 (200,169)        | +/-0.07                            | 33.11                             |      | 33.11                             |      |                |      |
| 100 | 106 (170)            | +/-0.07                            | 34.23                             |      | 34.24                             |      |                |      |
| 101 | 107 (190)            | +/-0.07                            | 34.49                             |      | 34.48                             |      |                |      |
| 102 | 108 (198)            | +/-0.07                            | 35.34                             |      | 35.33                             |      |                |      |
| 103 | 109 (199)            | +/-0.07                            | 35.58                             |      | 35.59                             |      |                |      |
| 104 | 110 (196,203)        | +/-0.07                            | 36.11                             |      | 36.11                             |      |                |      |
| 105 | 111 (189)            | +/-0.07                            | 37.28                             |      | 37.25                             |      |                |      |
| 106 | 112 (195)            | +/-0.07                            | 38.79                             |      | 38.80                             |      |                |      |
| 107 | 113 (208)            | +/-0.07                            | 39.28                             |      | 39.29                             |      |                |      |
| 108 | 114 (207)            | +/-0.07                            | 40.23                             |      | 40.25                             |      |                |      |
| 109 | 115 (194)            | +/-0.07                            | 41.59                             |      | 41.60                             |      |                |      |
| 110 | 116 (205)            | +/-0.07                            | 42.45                             |      | 42.49                             |      |                |      |
| 111 | 117 (206)            | +/-0.07                            | 47.53                             |      | 47.52                             |      |                |      |
| 112 | 118 (209)            | +/-0.07                            | 53.57                             |      | 53.53                             |      |                |      |

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|    | Peak Number<br>DB-1           | Retention Time Window<br>CCCS0610A | CCCS0610A<br>File ID: GC24-1177-3 |      | CCCS0610B<br>File ID: GC24-1177-7 |      | CCCS0610C<br>File ID: GC24-1177-9 |      |
|----|-------------------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|
|    |                               |                                    | Retention Time                    | Flag | Retention Time                    | Flag | Retention Time                    | Flag |
| 1  | 2 (1)                         | +/-0.07                            | 11.67                             |      | 11.68                             |      | 11.67                             |      |
| 2  | 3 (2)                         | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 3  | 4 (3)                         | +/-0.07                            | 12.80                             |      | 12.80                             |      | 12.80                             |      |
| 4  | 5 (4,10)                      | +/-0.07                            | 13.40                             |      | 13.41                             |      | 13.40                             |      |
| 5  | 6 (7,9)                       | +/-0.07                            | 14.26                             |      | 14.26                             |      | 14.26                             |      |
| 6  | 7 (6)                         | +/-0.07                            | 14.57                             |      | 14.57                             |      | 14.57                             |      |
| 7  | 8 (5,8)                       | +/-0.07                            | 14.75                             |      | 14.76                             |      | 14.76                             |      |
| 8  | 9 (14)                        | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 9  | 10 (19)                       | +/-0.07                            | 15.40                             |      | 15.40                             |      | 15.39                             |      |
| 10 | 11 (30)                       | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 11 | 12 (11)                       | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 12 | 13 (12,13)                    | +/-0.07                            | 16.11                             |      | 16.12                             |      | 16.11                             |      |
| 13 | 14 (15,18)                    | +/-0.07                            | 16.25                             |      | 16.25                             |      | 16.25                             |      |
| 14 | 15 (17)                       | +/-0.07                            | 16.33                             |      | 16.34                             |      | 16.33                             |      |
| 15 | 16 (24,27)                    | +/-0.07                            | 16.63                             |      | 16.64                             |      | 16.63                             |      |
| 16 | 17 (16,32)                    | +/-0.07                            | 16.89                             |      | 16.89                             |      | 16.89                             |      |
| 17 | 19 (23,34,54)                 | +/-0.07                            | 17.33                             |      | 17.33                             |      | 17.36                             |      |
| 18 | 20 (29)                       | +/-0.07                            | 17.51                             |      | 17.50                             |      | 17.50                             |      |
| 19 | 21 (26)                       | +/-0.07                            | 17.64                             |      | 17.64                             |      | 17.64                             |      |
| 20 | 22 (25)                       | +/-0.07                            | 17.72                             |      | 17.73                             |      | 17.73                             |      |
| 21 | 23 (31)                       | +/-0.07                            | 17.92                             |      | 17.92                             |      | 17.92                             |      |
| 22 | 24 (28,50)                    | +/-0.07                            | 17.97                             |      | 17.97                             |      | 17.97                             |      |
| 23 | 25 (20,21,33,53)              | +/-0.07                            | 18.32                             |      | 18.33                             |      | 18.32                             |      |
| 24 | 26 (22,51)                    | +/-0.07                            | 18.55                             |      | 18.56                             |      | 18.55                             |      |
| 25 | 27 (45)                       | +/-0.07                            | 18.79                             |      | 18.79                             |      | 18.78                             |      |
| 26 | 28 (36)                       | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 27 | 29 (46)                       | +/-0.07                            | 19.06                             |      | 19.07                             |      | 19.06                             |      |
| 28 | 30 (39)                       | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 29 | 31 (52,69,73)                 | +/-0.07                            | 19.35                             |      | 19.36                             |      | 19.35                             |      |
| 30 | 32 (43,49)                    | +/-0.07                            | 19.51                             |      | 19.52                             |      | 19.52                             |      |
| 31 | 33 (38,47)                    | +/-0.07                            | 19.63                             |      | 19.63                             |      | 19.63                             |      |
| 32 | 34 (48,75)                    | +/-0.07                            | 19.69                             |      | 19.70                             |      | 19.69                             |      |
| 33 | 35 (62,65)                    | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 34 | 36 (35)                       | +/-0.07                            | 19.89                             |      | 19.91                             |      | 19.89                             |      |
| 35 | 37 (104,44)                   | +/-0.07                            | 20.09                             |      | 20.09                             |      | 20.09                             |      |
| 36 | 38 (37,42,59)                 | +/-0.07                            | 20.22                             |      | 20.22                             |      | 20.22                             |      |
| 37 | 39 (41,64,71,72)              | +/-0.07                            | 20.56                             |      | 20.57                             |      | 20.56                             |      |
| 38 | 41 (68,96)                    | +/-0.07                            | 20.74                             |      | 20.73                             |      | 20.73                             |      |
| 39 | 42 (40)                       | +/-0.07                            | 20.83                             |      | 20.83                             |      | 20.83                             |      |
| 40 | 43 (57,103)                   | +/-0.07                            | 21.10                             |      | 21.09                             |      | 21.05                             |      |
| 41 | 44 (58,67,100)                | +/-0.07                            | 21.24                             |      | 21.24                             |      | 21.24                             |      |
| 42 | 45 (63)                       | +/-0.07                            | 21.40                             |      | 21.40                             |      | 21.40                             |      |
| 43 | 46 (74,94,61)                 | +/-0.07                            | 21.57                             |      | 21.57                             |      | 21.57                             |      |
| 44 | 47 (70)                       | +/-0.07                            | 21.70                             |      | 21.71                             |      | 21.70                             |      |
| 45 | 48 (66,76,98,80,93,95,102,88) | +/-0.07                            | 21.82                             |      | 21.82                             |      | 21.81                             |      |
| 46 | 49 (55,91,121)                | +/-0.07                            | 22.12                             |      | 22.13                             |      | 22.12                             |      |
| 47 | 50 (56,60)                    | +/-0.07                            | 22.42                             |      | 22.43                             |      | 22.42                             |      |
| 48 | 51 (84,92,155)                | +/-0.07                            | 22.67                             |      | 22.67                             |      | 22.67                             |      |
| 49 | 52 (89)                       | +/-0.07                            | 22.78                             |      | 22.78                             |      | 22.78                             |      |
| 50 | 53 (90,101)                   | +/-0.07                            | 22.92                             |      | 22.92                             |      | 22.91                             |      |
| 51 | 54 (79,99,113)                | +/-0.07                            | 23.11                             |      | 23.11                             |      | 23.11                             |      |
| 52 | 55 (119,150)                  | +/-0.07                            | 23.40                             |      | 23.39                             |      | 23.39                             |      |
| 53 | 56 (78,83,112,108)            | +/-0.07                            | 23.49                             |      | 23.49                             |      | 23.49                             |      |
| 54 | 57 (97,152,86)                | +/-0.07                            | 23.70                             |      | 23.70                             |      | 23.70                             |      |
| 55 | 58 (81,87,117,125,115,145)    | +/-0.07                            | 23.87                             |      | 23.88                             |      | 23.87                             |      |
| 56 | 59 (116,85,111)               | +/-0.07                            | 24.02                             |      | 24.03                             |      | 24.02                             |      |

**Pace Analytical Services, Inc.**  
**PCB CONTINUING CALIBRATION SUMMARY**  
**RETENTION TIME WINDOW VERIFICATION**

|     | Peak Number<br>DB-1  | Retention Time Window<br>CCCS0610A | CCCS0610A<br>File ID: GC24-1177-3 |      | CCCS0610B<br>File ID: GC24-1177-7 |      | CCCS0610C<br>File ID: GC24-1177-9 |      |
|-----|----------------------|------------------------------------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|
|     |                      |                                    | Retention Time                    | Flag | Retention Time                    | Flag | Retention Time                    | Flag |
| 57  | 60 (120,136)         | +/-0.07                            | 24.16                             |      | 24.16                             |      | 24.16                             |      |
| 58  | 61 (77,110,148)      | +/-0.07                            | 24.28                             |      | 24.28                             |      | 24.28                             |      |
| 59  | 62 (154)             | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 60  | 63 (82)              | +/-0.07                            | 24.65                             |      | 24.65                             |      | 24.65                             |      |
| 61  | 64 (151)             | +/-0.07                            | 24.94                             |      | 24.94                             |      | 24.94                             |      |
| 62  | 65 (124,135)         | +/-0.07                            | 25.08                             |      | 25.08                             |      | 25.08                             |      |
| 63  | 66 (144)             | +/-0.07                            | 25.13                             |      | 25.13                             |      | 25.13                             |      |
| 64  | 67 (107,109,147)     | +/-0.07                            | 25.18                             |      | 25.19                             |      | 25.19                             |      |
| 65  | 68 (123)             | +/-0.07                            | 25.27                             |      | 25.32                             |      | 25.32                             |      |
| 66  | 69 (106,118,139,149) | +/-0.07                            | 25.39                             |      | 25.39                             |      | 25.39                             |      |
| 67  | 70 (140)             | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 68  | 71 (114,134,143)     | +/-0.07                            | 25.78                             |      | 25.78                             |      | 25.78                             |      |
| 69  | 72 (122,131,133,142) | +/-0.07                            | 25.96                             |      | 25.99                             |      | 25.97                             |      |
| 70  | 73 (146,165,188)     | +/-0.07                            | 26.26                             |      | 26.26                             |      | 26.26                             |      |
| 71  | 74 (105,132,161)     | +/-0.07                            | 26.38                             |      | 26.39                             |      | 26.38                             |      |
| 72  | 75 (153)             | +/-0.07                            | 26.53                             |      | 26.54                             |      | 26.53                             |      |
| 73  | 76 (127,168,184)     | +/-0.07                            |                                   |      |                                   |      |                                   |      |
| 74  | 77 (141)             | +/-0.07                            | 27.06                             |      | 27.07                             |      | 27.06                             |      |
| 75  | 78 (179)             | +/-0.07                            | 27.14                             |      | 27.14                             |      | 27.14                             |      |
| 76  | 79 (137)             | +/-0.07                            | 27.33                             |      | 27.37                             |      | 27.40                             |      |
| 77  | 80 (130,176)         | +/-0.07                            | 27.49                             |      | 27.50                             |      | 27.49                             |      |
| 78  | 82 (138,163,164)     | +/-0.07                            | 27.71                             |      | 27.72                             |      | 27.71                             |      |
| 79  | 83 (158,160,186)     | +/-0.07                            | 27.88                             |      | 27.89                             |      | 27.89                             |      |
| 80  | 84 (126,129)         | +/-0.07                            | 28.10                             |      | 28.09                             |      | 28.09                             |      |
| 81  | 85 (166,178)         | +/-0.07                            | 28.43                             |      | 28.43                             |      | 28.42                             |      |
| 82  | 87 (175,159)         | +/-0.07                            | 28.73                             |      | 28.74                             |      | 28.73                             |      |
| 83  | 88 (182,187)         | +/-0.07                            | 28.87                             |      | 28.88                             |      | 28.87                             |      |
| 84  | 89 (128,162)         | +/-0.07                            | 29.00                             |      | 29.00                             |      | 29.00                             |      |
| 85  | 90 (183)             | +/-0.07                            | 29.17                             |      | 29.18                             |      | 29.17                             |      |
| 86  | 91 (167)             | +/-0.07                            | 29.44                             |      | 29.44                             |      | 29.46                             |      |
| 87  | 92 (185)             | +/-0.07                            | 29.77                             |      | 29.78                             |      | 29.77                             |      |
| 88  | 93 (174,181)         | +/-0.07                            | 30.14                             |      | 30.15                             |      | 30.14                             |      |
| 89  | 94 (177)             | +/-0.07                            | 30.41                             |      | 30.41                             |      | 30.41                             |      |
| 90  | 95 (156,171)         | +/-0.07                            | 30.70                             |      | 30.70                             |      | 30.69                             |      |
| 91  | 96 (157,202)         | +/-0.07                            | 30.96                             |      | 30.96                             |      | 30.96                             |      |
| 92  | 98 (173)             | +/-0.07                            | 31.15                             |      | 31.13                             |      | 31.12                             |      |
| 93  | 99 (201)             | +/-0.07                            | 31.49                             |      | 31.50                             |      | 31.50                             |      |
| 94  | 100 (172,204)        | +/-0.07                            | 31.73                             |      | 31.74                             |      | 31.73                             |      |
| 95  | 101 (192,197)        | +/-0.07                            | 32.07                             |      | 32.03                             |      | 32.08                             |      |
| 96  | 102 (180)            | +/-0.07                            | 32.20                             |      | 32.20                             |      | 32.20                             |      |
| 97  | 103 (193)            | +/-0.07                            | 32.43                             |      | 32.45                             |      | 32.45                             |      |
| 98  | 104 (191)            | +/-0.07                            | 32.75                             |      | 32.74                             |      | 32.75                             |      |
| 99  | 105 (200,169)        | +/-0.07                            | 33.11                             |      | 33.12                             |      | 33.11                             |      |
| 100 | 106 (170)            | +/-0.07                            | 34.24                             |      | 34.24                             |      | 34.23                             |      |
| 101 | 107 (190)            | +/-0.07                            | 34.49                             |      | 34.49                             |      | 34.49                             |      |
| 102 | 108 (198)            | +/-0.07                            | 35.35                             |      | 35.34                             |      | 35.35                             |      |
| 103 | 109 (199)            | +/-0.07                            | 35.58                             |      | 35.58                             |      | 35.58                             |      |
| 104 | 110 (196,203)        | +/-0.07                            | 36.11                             |      | 36.12                             |      | 36.11                             |      |
| 105 | 111 (189)            | +/-0.07                            | 37.23                             |      | 37.22                             |      | 37.30                             |      |
| 106 | 112 (195)            | +/-0.07                            | 38.78                             |      | 38.80                             |      | 38.78                             |      |
| 107 | 113 (208)            | +/-0.07                            | 39.30                             |      | 39.31                             |      | 39.28                             |      |
| 108 | 114 (207)            | +/-0.07                            | 40.20                             |      | 40.23                             |      | 40.21                             |      |
| 109 | 115 (194)            | +/-0.07                            | 41.59                             |      | 41.60                             |      | 41.59                             |      |
| 110 | 116 (205)            | +/-0.07                            | 42.45                             |      | 42.44                             |      | 42.46                             |      |
| 111 | 117 (206)            | +/-0.07                            | 47.52                             |      | 47.56                             |      | 47.54                             |      |
| 112 | 118 (209)            | +/-0.07                            | 53.54                             |      | 53.56                             |      | 53.55                             |      |

# CALIBRATION COMPONENT SUMMARY TABLE (GC24)



Project Name: GC24\_Jan\_2015 Current Time: 09:30:07  
 Sample Set Name: GC24\_060315a Current Date: 6/23/2015  
 Processing Method: CSGB\_LL1X\_012015 Calibration ID: 1599  
 Run Time: 60 Minutes Calibration Date(s): 01/20/2015

Correlation Summary

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Correlation<br>Coefficient | Equation                    | Value A              | Value B             |
|----|-----------------------------------|----------------------------|-----------------------------|----------------------|---------------------|
| 1  | 2 (1)                             | 0.999643                   | Y = 2.86e-002 X - 7.15e-005 | -7.15219239065257E-5 | 0.0285832870085706  |
| 2  | 3 (2)                             | 1.000000                   | Y = 4.87e-003 X             | 0                    | 0.00487087403569128 |
| 3  | 4 (3)                             | 0.999119                   | Y = 1.59e-002 X + 5.34e-005 | 5.34234981299925E-5  | 0.0158535242952838  |
| 4  | 5 (4,10)                          | 0.999925                   | Y = 6.08e-002 X + 1.98e-003 | 0.00198428676514883  | 0.0608261114407673  |
| 5  | 6 (7,9)                           | 0.999790                   | Y = 4.17e-001 X + 3.15e-003 | 0.00314589318640285  | 0.416856476295613   |
| 6  | 7 (6)                             | 0.999414                   | Y = 2.08e-001 X + 3.86e-003 | 0.00386276886084463  | 0.208233104328424   |
| 7  | 8 (5,8)                           | 0.999568                   | Y = 1.08e-001 X + 1.16e-002 | 0.0115797872129222   | 0.108312513385306   |
| 8  | 9 (14)                            | 1.000000                   | Y = 1.68e-001 X             | 0                    | 0.167863157189923   |
| 9  | 10 (19)                           | 0.999641                   | Y = 3.03e-001 X + 1.01e-003 | 0.00101226294002738  | 0.302712344196105   |
| 10 | 11 (30)                           | 1.000000                   | Y = 5.84e-001 X             | 0                    | 0.584223545173858   |
| 11 | 12 (11)                           | 1.000000                   | Y = 5.91e-002 X             | 0                    | 0.0591389800453245  |
| 12 | 13 (12,13)                        | 0.997255                   | Y = 3.18e-001 X + 1.16e-003 | 0.0011588269904303   | 0.317752216034228   |
| 13 | 14 (15,18)                        | 0.999800                   | Y = 3.55e-001 X + 1.16e-002 | 0.0116293440809951   | 0.355434111515396   |
| 14 | 15 (17)                           | 0.999991                   | Y = 1.62e-001 X - 1.46e-003 | -0.00145993505921449 | 0.162260177761834   |
| 15 | 16 (24,27)                        | 0.999889                   | Y = 4.89e-001 X - 4.74e-004 | -0.00047413343545044 | 0.489383853439735   |
| 16 | 17 (16,32)                        | 0.999785                   | Y = 2.89e-001 X - 1.36e-003 | -0.00135658747731537 | 0.289045595709956   |
| 17 | 19 (23,34,54)                     | 1.000000                   | Y = 3.58e-001 X             | 0                    | 0.358058718034696   |
| 18 | 20 (29)                           | 0.999378                   | Y = 3.61e-001 X - 1.13e-004 | -0.00011345697593776 | 0.361426329539425   |
| 19 | 21 (26)                           | 0.999929                   | Y = 3.49e-001 X + 3.83e-004 | 0.000383423633563362 | 0.349324988728667   |
| 20 | 22 (25)                           | 0.999077                   | Y = 4.33e-001 X + 1.51e-003 | 0.00151227678622629  | 0.433424427456766   |
| 21 | 23 (31)                           | 0.999223                   | Y = 4.57e-001 X + 1.35e-002 | 0.0134623002455114   | 0.456891252357539   |
| 22 | 24 (28,50)                        | 0.999478                   | Y = 5.14e-001 X + 2.11e-002 | 0.0211033873587594   | 0.513816840167077   |
| 23 | 25 (20,21,33,53)                  | 0.999721                   | Y = 3.98e-001 X - 2.97e-003 | -0.00296609561815742 | 0.397879881126526   |
| 24 | 26 (22,51)                        | 0.999600                   | Y = 3.63e-001 X + 5.96e-003 | 0.0059567134012799   | 0.362734130579059   |
| 25 | 27 (45)                           | 0.999601                   | Y = 4.12e-001 X + 2.36e-003 | 0.00235824794502992  | 0.411819881002141   |
| 26 | 28 (36)                           | 1.000000                   | Y = 2.89e-001 X             | 0                    | 0.289430017631801   |
| 27 | 29 (46)                           | 0.999640                   | Y = 3.67e-001 X + 4.63e-004 | 0.000463438600201621 | 0.367100196498291   |
| 28 | 30 (39)                           | 1.000000                   | Y = 2.85e-001 X             | 0                    | 0.285076015360773   |
| 29 | 31 (52,69,73)                     | 0.999678                   | Y = 3.32e-001 X + 1.21e-002 | 0.0121466154970664   | 0.332156275357968   |
| 30 | 32 (43,49)                        | 0.999480                   | Y = 6.49e-001 X + 1.31e-002 | 0.0130878146950657   | 0.64886608917753    |
| 31 | 33 (38,47)                        | 0.999534                   | Y = 9.19e-001 X - 3.39e-003 | -0.00339232925011379 | 0.919096303914784   |
| 32 | 34 (48,75)                        | 0.999779                   | Y = 6.32e-001 X + 6.73e-004 | 0.00067311480758625  | 0.632267109887145   |
| 33 | 35 (62,65)                        | 1.000000                   | Y = 7.02e-001 X             | 0                    | 0.701644694415512   |
| 34 | 36 (35)                           | 1.000000                   | Y = 2.73e-001 X             | 0                    | 0.272728678200422   |
| 35 | 37 (104,44)                       | 0.999623                   | Y = 5.02e-001 X + 1.74e-002 | 0.0173707711927347   | 0.501909345951703   |
| 36 | 38 (37,42,59)                     | 0.999777                   | Y = 3.93e-001 X - 4.17e-004 | -0.00041716076286080 | 0.392990785388391   |
| 37 | 39 (41,64,71,72)                  | 0.999473                   | Y = 6.31e-001 X + 1.68e-002 | 0.0167759759790176   | 0.631243127012035   |
| 38 | 41 (68,96)                        | 1.000000                   | Y = 4.09e-001 X             | 0                    | 0.409247947150649   |



Project Name: GC24\_Jan\_2015 Current Time: 09:30:08  
 Sample Set Name: GC24\_060315a Current Date: 6/23/2015  
 Processing Method: CSGB\_LL1X\_012015 Calibration ID: 1599  
 Run Time: 60 Minutes Calibration Date(s): 01/20/2015

Correlation Summary

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Correlation<br>Coefficient | Equation                    | Value A              | Value B           |
|----|-----------------------------------|----------------------------|-----------------------------|----------------------|-------------------|
| 39 | 42 (40)                           | 0.999967                   | Y = 5.06e-001 X + 2.72e-003 | 0.00271634238268981  | 0.505775780524196 |
| 40 | 43 (57,103)                       | 1.000000                   | Y = 5.56e-001 X             | 0                    | 0.55561948844464  |
| 41 | 44 (58,67,100)                    | 0.998514                   | Y = 7.33e-001 X + 4.28e-004 | 0.000427621182547008 | 0.732752768543974 |
| 42 | 45 (63)                           | 0.999718                   | Y = 6.68e-001 X - 3.14e-004 | -0.00031374831659075 | 0.668004988914552 |
| 43 | 46 (74,94,61)                     | 0.999674                   | Y = 9.34e-001 X + 1.82e-002 | 0.0182093121749523   | 0.93364425267357  |
| 44 | 47 (70)                           | 0.999528                   | Y = 7.51e-001 X + 1.68e-002 | 0.0168443137496599   | 0.750881120826605 |
| 45 | 48 (66,76,98,80,93,95,102,88)     | 0.999589                   | Y = 4.97e-001 X + 3.21e-002 | 0.0321093244329651   | 0.49668170142765  |
| 46 | 49 (55,91,121)                    | 0.999600                   | Y = 5.24e-001 X + 8.50e-004 | 0.000849624983654318 | 0.52363144712997  |
| 47 | 50 (56,60)                        | 0.999724                   | Y = 7.28e-001 X + 1.76e-002 | 0.0176260103989394   | 0.728413788898341 |
| 48 | 51 (84,92,155)                    | 0.999597                   | Y = 2.85e-001 X + 1.76e-003 | 0.0017565414870534   | 0.285178581855503 |
| 49 | 52 (89)                           | 0.996973                   | Y = 5.04e-001 X + 3.58e-004 | 0.000358133970464407 | 0.504324914171795 |
| 50 | 53 (90,101)                       | 0.999530                   | Y = 6.42e-001 X + 4.59e-003 | 0.00459112075104073  | 0.641820141007348 |
| 51 | 54 (79,99,113)                    | 0.999743                   | Y = 9.71e-001 X - 1.43e-003 | -0.00142975906598541 | 0.970773399186173 |
| 52 | 55 (119,150)                      | 0.999827                   | Y = 1.32e+000 X + 2.40e-004 | 0.00024002949339258  | 1.32468511212306  |
| 53 | 56 (78,83,112,108)                | 0.998598                   | Y = 5.43e-001 X + 4.86e-004 | 0.000485833640095842 | 0.543327205495154 |
| 54 | 57 (97,152,86)                    | 0.999905                   | Y = 8.01e-001 X + 1.95e-003 | 0.00195374493949541  | 0.801010612159897 |
| 55 | 58 (81,87,117,125,115,145)        | 0.999875                   | Y = 6.83e-001 X + 7.73e-003 | 0.00772542090848016  | 0.682899600788108 |
| 56 | 59 (116,85,111)                   | 0.999727                   | Y = 8.20e-001 X + 4.07e-003 | 0.00406649183271079  | 0.820139962972047 |
| 57 | 60 (120,136)                      | 0.999998                   | Y = 7.01e-001 X + 2.85e-003 | 0.00284637403595611  | 0.701191207771115 |
| 58 | 61 (77,110,148)                   | 0.999911                   | Y = 6.12e-001 X + 6.14e-003 | 0.00613936148256     | 0.611501581378642 |
| 59 | 62 (154)                          | 1.000000                   | Y = 6.42e-001 X             | 0                    | 0.641948082033759 |
| 60 | 63 (82)                           | 0.999693                   | Y = 7.27e-001 X + 1.05e-003 | 0.0010526904472612   | 0.727049813793781 |
| 61 | 64 (151)                          | 0.999842                   | Y = 7.02e-001 X + 3.61e-003 | 0.00361484631831299  | 0.701718184401345 |
| 62 | 65 (124,135)                      | 0.999696                   | Y = 1.17e+000 X + 1.16e-003 | 0.001160328488159    | 1.17411714488062  |
| 63 | 66 (144)                          | 0.999604                   | Y = 4.04e-001 X - 2.61e-004 | -0.00026139743684441 | 0.403533324172928 |
| 64 | 67 (107,109,147)                  | 0.996766                   | Y = 5.75e-001 X + 5.41e-004 | 0.000541209580504104 | 0.575228430124187 |
| 65 | 68 (123)                          | 1.000000                   | Y = 7.27e-001 X             | 0                    | 0.726710291665037 |
| 66 | 69 (106,118,139,149)              | 0.999538                   | Y = 7.69e-001 X + 3.39e-002 | 0.0339152262865059   | 0.769140547917163 |
| 67 | 70 (140)                          | 1.000000                   | Y = 7.51e-001 X             | 0                    | 0.751325384773311 |
| 68 | 71 (114,134,143)                  | 0.999888                   | Y = 7.26e-001 X - 6.71e-004 | -0.00067058076722398 | 0.726480118727383 |
| 69 | 72 (122,131,133,142)              | 0.999148                   | Y = 1.03e+000 X + 1.36e-004 | 0.000135740577959547 | 1.03429869343433  |
| 70 | 73 (146,165,188)                  | 0.999604                   | Y = 7.67e-001 X - 3.59e-004 | -0.00035897904498061 | 0.767246005331976 |
| 71 | 74 (105,132,161)                  | 0.999848                   | Y = 1.01e+000 X + 1.21e-003 | 0.0012100602205849   | 1.00921939248359  |
| 72 | 75 (153)                          | 0.999379                   | Y = 9.67e-001 X + 2.56e-002 | 0.0256338578767275   | 0.966648175900466 |
| 73 | 76 (127,168,184)                  | 1.000000                   | Y = 6.60e-001 X             | 0                    | 0.659906779951208 |
| 74 | 77 (141)                          | 0.999988                   | Y = 5.57e-001 X - 5.72e-003 | -0.00571532758459137 | 0.556660696831282 |
| 75 | 78 (179)                          | 0.999503                   | Y = 7.29e-001 X - 3.81e-003 | -0.00381106370381723 | 0.728931764089028 |
| 76 | 79 (137)                          | 0.996156                   | Y = 2.30e-001 X - 1.48e-004 | -0.00014781638592355 | 0.230099631593426 |



Project Name: GC24\_Jan\_2015 Current Time: 09:30:09  
 Sample Set Name: GC24\_060315a Current Date: 6/23/2015  
 Processing Method: CSGB\_LL1X\_012015 Calibration ID: 1599  
 Run Time: 60 Minutes Calibration Date(s): 01/20/2015

Correlation Summary

|     | DB-1 Peak Number<br>(PCB IUPAC #) | Correlation<br>Coefficient | Equation                    | Value A              | Value B           |
|-----|-----------------------------------|----------------------------|-----------------------------|----------------------|-------------------|
| 77  | 80 (130,176)                      | 0.999902                   | Y = 1.34e+000 X + 1.59e-003 | 0.00159340664769914  | 1.3380614675721   |
| 78  | 82 (138,163,164)                  | 0.999791                   | Y = 8.79e-001 X + 2.02e-002 | 0.0201883989565927   | 0.879343217638553 |
| 79  | 83 (158,160,186)                  | 0.999854                   | Y = 8.67e-001 X - 8.35e-004 | -0.00083464451695175 | 0.866624581775444 |
| 80  | 84 (126,129)                      | 0.998175                   | Y = 2.43e+000 X + 4.73e-006 | 4.73402272836362E-6  | 2.43073877745806  |
| 81  | 85 (166,178)                      | 0.999748                   | Y = 4.40e-001 X + 1.24e-003 | 0.00123797788373664  | 0.439545781849874 |
| 82  | 87 (175,159)                      | 0.999938                   | Y = 4.37e-001 X + 7.57e-004 | 0.000756972308424322 | 0.437041877414599 |
| 83  | 88 (182,187)                      | 0.999691                   | Y = 8.66e-001 X + 3.64e-002 | 0.0364175116826622   | 0.866024034643156 |
| 84  | 89 (128,162)                      | 0.999383                   | Y = 1.11e+000 X - 1.29e-004 | -0.00012880183323375 | 1.1051023922702   |
| 85  | 90 (183)                          | 0.999763                   | Y = 8.10e-001 X - 1.15e-004 | -0.00011514654069522 | 0.810288168970666 |
| 86  | 91 (167)                          | 0.999825                   | Y = 5.62e-001 X - 4.31e-004 | -0.00043118381438265 | 0.561991561415086 |
| 87  | 92 (185)                          | 0.999993                   | Y = 1.16e+000 X - 9.36e-004 | -0.00093562262583679 | 1.16350508881178  |
| 88  | 93 (174,181)                      | 0.999792                   | Y = 8.45e-001 X + 1.63e-002 | 0.0163336751800069   | 0.845120724757638 |
| 89  | 94 (177)                          | 0.999850                   | Y = 7.41e-001 X + 1.21e-003 | 0.00121386204715668  | 0.740659670446781 |
| 90  | 95 (156,171)                      | 0.999550                   | Y = 7.43e-001 X + 4.25e-003 | 0.00424618402782406  | 0.743214061590816 |
| 91  | 96 (157,202)                      | 0.999708                   | Y = 5.46e+000 X + 6.52e-004 | 0.000652383006214396 | 5.45896440962844  |
| 92  | 98 (173)                          | 0.998891                   | Y = 8.11e-001 X - 5.45e-005 | -5.45255045388063E-5 | 0.810963388594318 |
| 93  | 99 (201)                          | 0.999990                   | Y = 7.41e-001 X + 1.83e-003 | 0.00182924232569398  | 0.741306190359132 |
| 94  | 100 (172,204)                     | 0.999895                   | Y = 6.71e-001 X - 2.64e-003 | -0.00263689297237191 | 0.670919408929821 |
| 95  | 101 (192,197)                     | 0.999837                   | Y = 4.25e-001 X + 1.19e-004 | 0.000118655078781657 | 0.424874557274226 |
| 96  | 102 (180)                         | 0.999779                   | Y = 9.78e-001 X + 4.05e-002 | 0.0404670527099054   | 0.978063948572133 |
| 97  | 103 (193)                         | 0.999520                   | Y = 6.48e-001 X - 1.66e-005 | -1.6613286721423E-5  | 0.647613722412901 |
| 98  | 104 (191)                         | 0.999998                   | Y = 6.55e-001 X + 5.67e-004 | 0.000567240059993077 | 0.655085045332506 |
| 99  | 105 (200,169)                     | 0.999968                   | Y = 8.32e-001 X - 2.45e-003 | -0.00244909903751761 | 0.831808849996597 |
| 100 | 106 (170)                         | 0.999946                   | Y = 1.49e+000 X + 8.42e-003 | 0.00841568224288403  | 1.4939889744062   |
| 101 | 107 (190)                         | 0.996587                   | Y = 1.15e+000 X - 3.53e-003 | -0.00353479689184383 | 1.14802801076489  |
| 102 | 108 (198)                         | 0.999584                   | Y = 1.00e+000 X + 1.35e-003 | 0.00135446801503138  | 1.00452542843002  |
| 103 | 109 (199)                         | 0.999975                   | Y = 5.60e-001 X - 2.62e-003 | -0.00261816713921315 | 0.559925576210929 |
| 104 | 110 (196,203)                     | 0.999963                   | Y = 6.21e-001 X + 1.58e-002 | 0.0158273737000938   | 0.621118313825117 |
| 105 | 111 (189)                         | 0.999023                   | Y = 1.25e+000 X + 5.93e-004 | 0.000592558054343779 | 1.24945239512976  |
| 106 | 112 (195)                         | 0.999730                   | Y = 1.60e+000 X - 4.36e-004 | -0.00043551879379299 | 1.60004875954772  |
| 107 | 113 (208)                         | 0.996729                   | Y = 4.96e-001 X + 1.03e-003 | 0.00103187384988207  | 0.496101097617281 |
| 108 | 114 (207)                         | 0.996657                   | Y = 9.44e-001 X - 9.27e-004 | -0.00092728649026420 | 0.943776692767691 |
| 109 | 115 (194)                         | 0.999999                   | Y = 1.36e+000 X - 1.61e-002 | -0.0161140537356554  | 1.36130122052532  |
| 110 | 116 (205)                         | 0.998217                   | Y = 8.84e-001 X + 3.54e-004 | 0.000353735827518548 | 0.88399041901056  |
| 111 | 117 (206)                         | 0.998970                   | Y = 1.18e+000 X - 3.21e-003 | -0.00321395662026514 | 1.18131795831728  |
| 112 | 118 (209)                         | 0.999848                   | Y = 7.60e-001 X + 1.17e-004 | 0.000116615300876814 | 0.760064225922847 |
| 113 | I.S. (OCN)                        | 1.000000                   | Y = 3.16e+003 X             | 0                    | 3158.16679668537  |

# STANDARDS SUMMARY TABLE (GC30)

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

Sample Set Name: GC30\_CC\_052015  
Project Name: GC30\_Jan\_2015  
Sample Set Start Date: 5/20/2015 7:39:15 PM EDT  
Current Date: 5/21/2015  
Report Name: CSGB\_SumRpt\_FDCB\_AVG\_

**ICAL FDCB Area Summary Report**

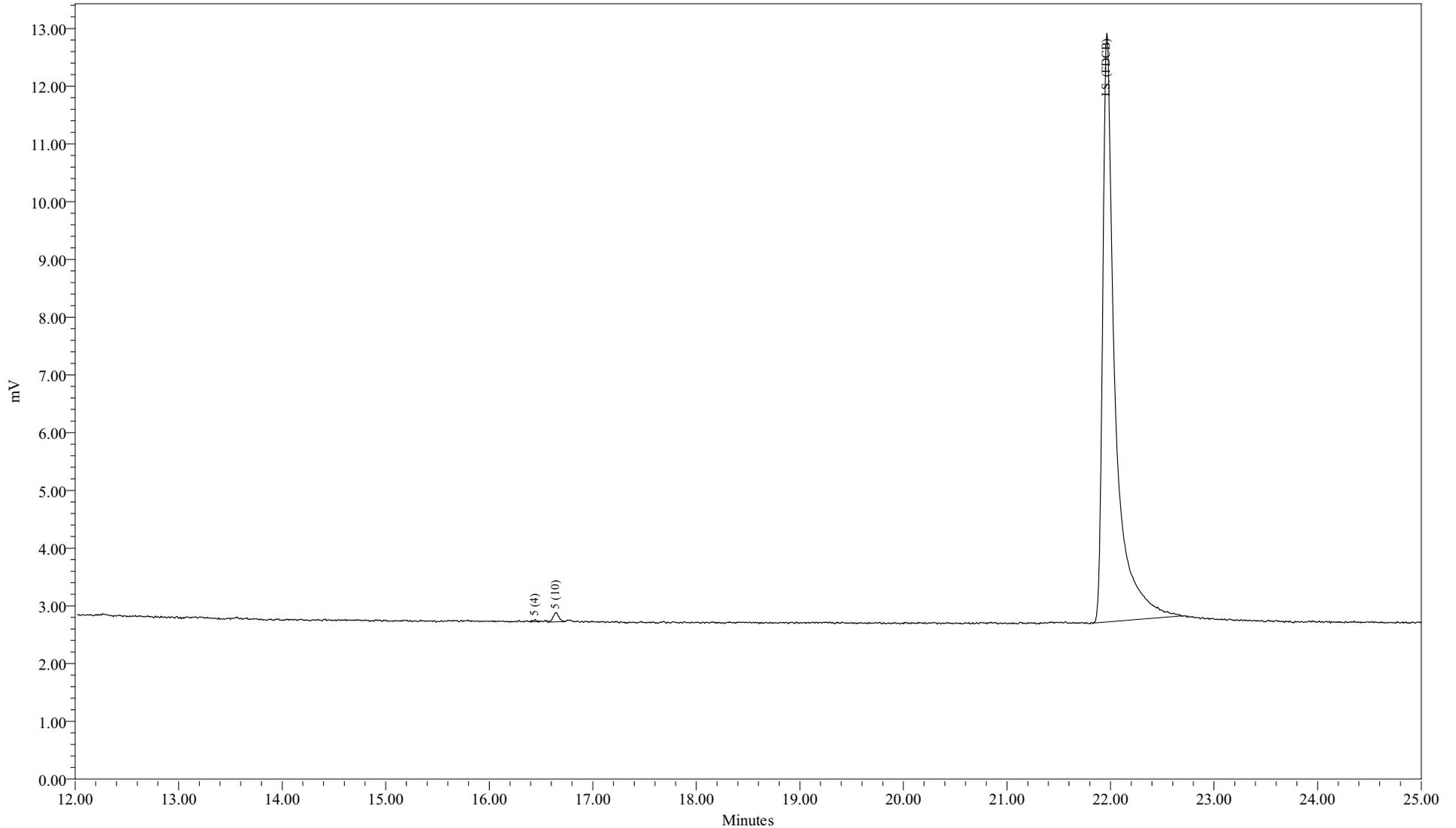
|      | Sample Name | Sample ID              | Date Acquired             | FDCB Area |
|------|-------------|------------------------|---------------------------|-----------|
| 1    | ICBZ0520A   | IUPAC 4-10 0.100 ng/mL | 5/20/2015 11:52:11 PM EDT | 85142     |
| 2    | ICBZ0520B   | IUPAC 4-10 0.500 ng/mL | 5/21/2015 12:39:28 AM EDT | 85271     |
| 3    | ICBZ0520C   | IUPAC 4-10 5.0 ng/mL   | 5/21/2015 1:26:42 AM EDT  | 86430     |
| 4    | ICBZ0520D   | IUPAC 4-10 25.0 ng/mL  | 5/21/2015 2:13:57 AM EDT  | 87272     |
| 5    | ICBZ0520E   | IUPAC 4-10 50.0 ng/mL  | 5/21/2015 3:01:06 AM EDT  | 85758     |
| Mean |             |                        |                           | 85975     |

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|                    |                          |                  |                          |
|--------------------|--------------------------|------------------|--------------------------|
| System Name:       | Instrument_30            | Date Calibrated: | 5/21/2015 4:43:59 PM EDT |
| Sample Set Name:   | GC30_CC_052015           | Method Report:   | CSGB CCSum by RF         |
| Sample Set Date:   | 5/20/2015 7:39:15 PM EDT | User Name:       | Amie Hamilton (AmieH)    |
| Processing Method: | GC30_410_1X_052015       |                  |                          |

**Calibration Component Summary  
Table  
Component Summary For RF**

|           | Sample Name | 5 (4)    | 5 (10)   |
|-----------|-------------|----------|----------|
| 1         | ICBZ0520A   | 0.183057 | 1.286352 |
| 2         | ICBZ0520B   | 0.182466 | 1.176330 |
| 3         | ICBZ0520C   | 0.180018 | 1.205850 |
| 4         | ICBZ0520D   | 0.176518 | 1.097524 |
| 5         | ICBZ0520E   | 0.170303 | 1.050231 |
| Mean      |             | 0.178    | 1.163    |
| Std. Dev. |             | 0.005    | 0.093    |
| % RSD     |             | 2.94     | 7.95     |



Sample Name: ICBZ0520A  
Sample ID: IUPAC 4-10 0.100 ng/mL  
Date Acquired: 5/20/2015 11:52:11 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-6 [m]

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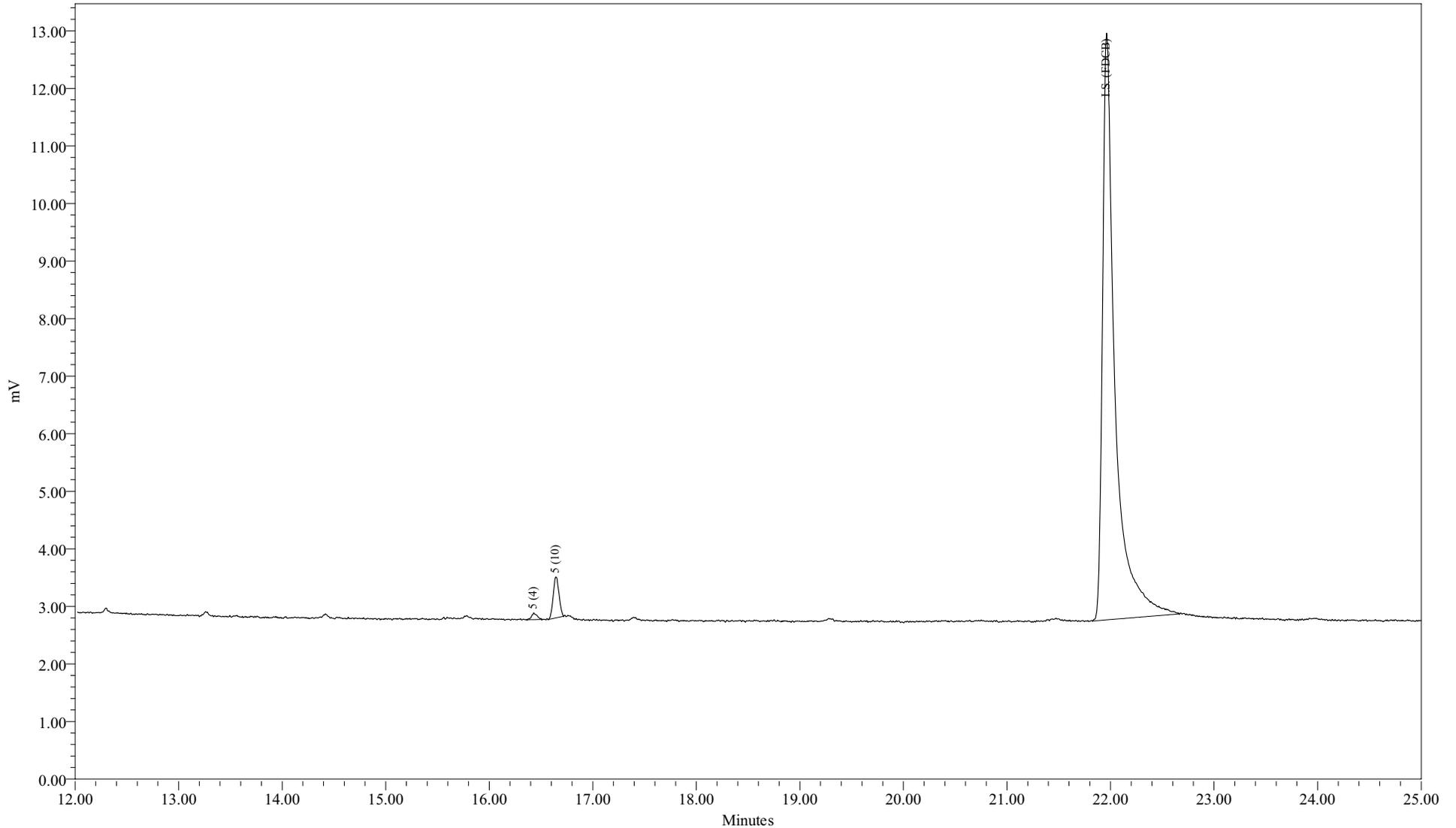
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Sample Name: ICBZ0520A Sample Amount: 1  
Sample ID: IUPAC 4-10 0.100 ng/mL Dilution: 1  
Date Acquired: 5/20/2015 11:52:11 PM EDT Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 5/21/2015 4:43:47 PM EDT  
Sample Set Name: GC30\_CC\_052015 User Name: Amie Hamilton (AmieH)  
Processing Method: GC30\_410\_1X\_052015 Current Date: 5/21/2015  
Run Time: 38.0 Minutes Current Time: 4:59:21 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC30-453-6 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | 5 (4)                             | 16.445            | 86               | 0.100                   | 0.100                | 0.183057                    |
| 2 | 5 (10)                            | 16.645            | 602              | 0.100                   | 0.100                | 1.286352                    |
| 3 | I.S. (FDCB)                       | 21.965            | 85142            | 18.180                  | 18.180               | 4683.299983                 |



Sample Name: ICBZ0520B  
Sample ID: IUPAC 4-10 0.500 ng/mL  
Date Acquired: 5/21/2015 12:39:28 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-7 [m]

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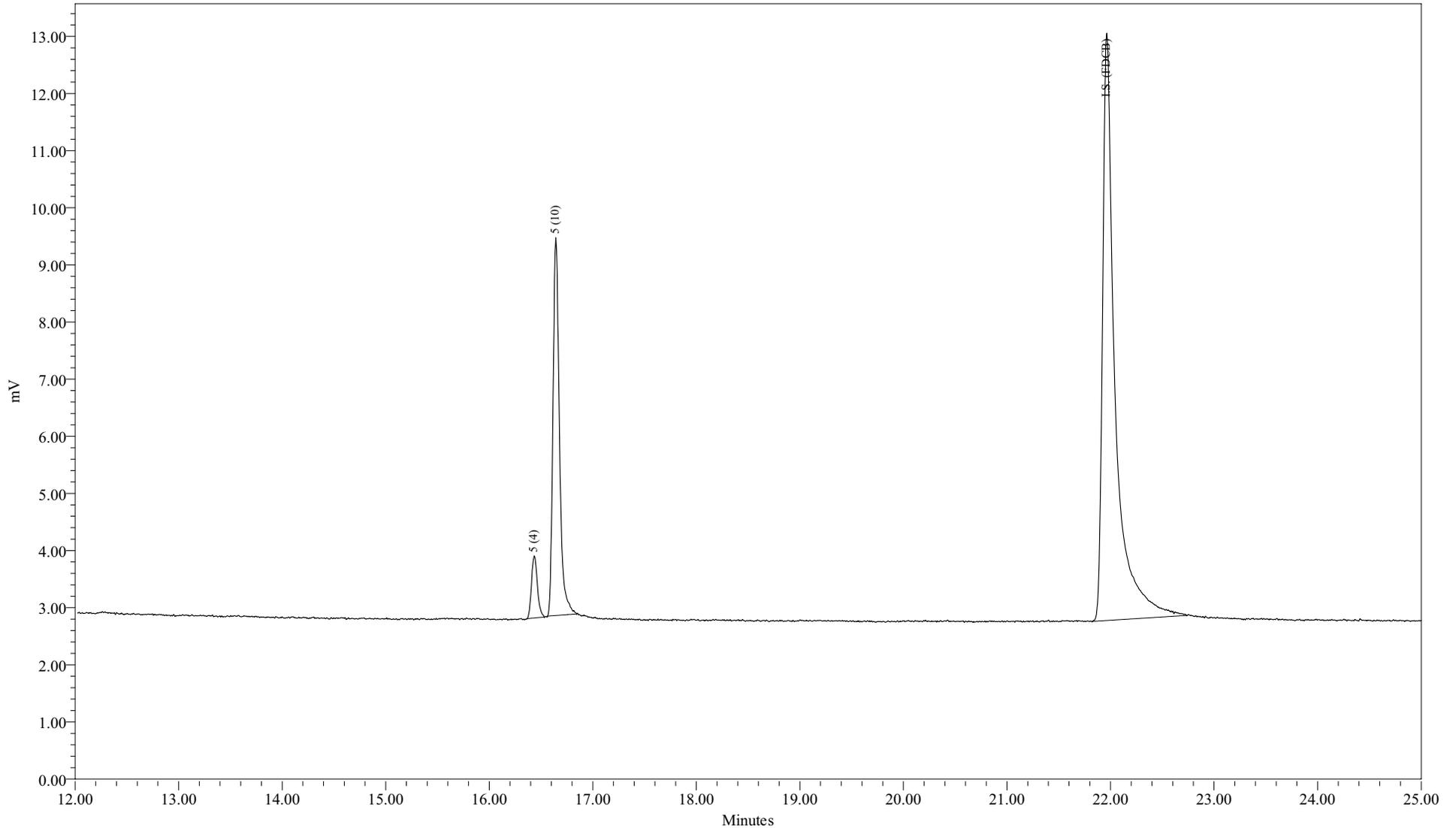
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Sample Name: ICBZ0520B Sample Amount: 1  
Sample ID: IUPAC 4-10 0.500 ng/mL Dilution: 1  
Date Acquired: 5/21/2015 12:39:28 AM EDT Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 5/21/2015 4:43:49 PM EDT  
Sample Set Name: GC30\_CC\_052015 User Name: Amie Hamilton (AmieH)  
Processing Method: GC30\_410\_1X\_052015 Current Date: 5/21/2015  
Run Time: 38.0 Minutes Current Time: 4:59:21 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC30-453-7 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | 5 (4)                             | 16.430            | 428              | 0.500                   | 0.500                | 0.182466                    |
| 2 | 5 (10)                            | 16.643            | 2759             | 0.500                   | 0.500                | 1.176330                    |
| 3 | I.S. (FDCB)                       | 21.962            | 85271            | 18.180                  | 18.180               | 4690.394962                 |



Sample Name: ICBZ0520C  
Sample ID: IUPAC 4-10 5.0 ng/mL  
Date Acquired: 5/21/2015 1:26:42 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-8 [m]

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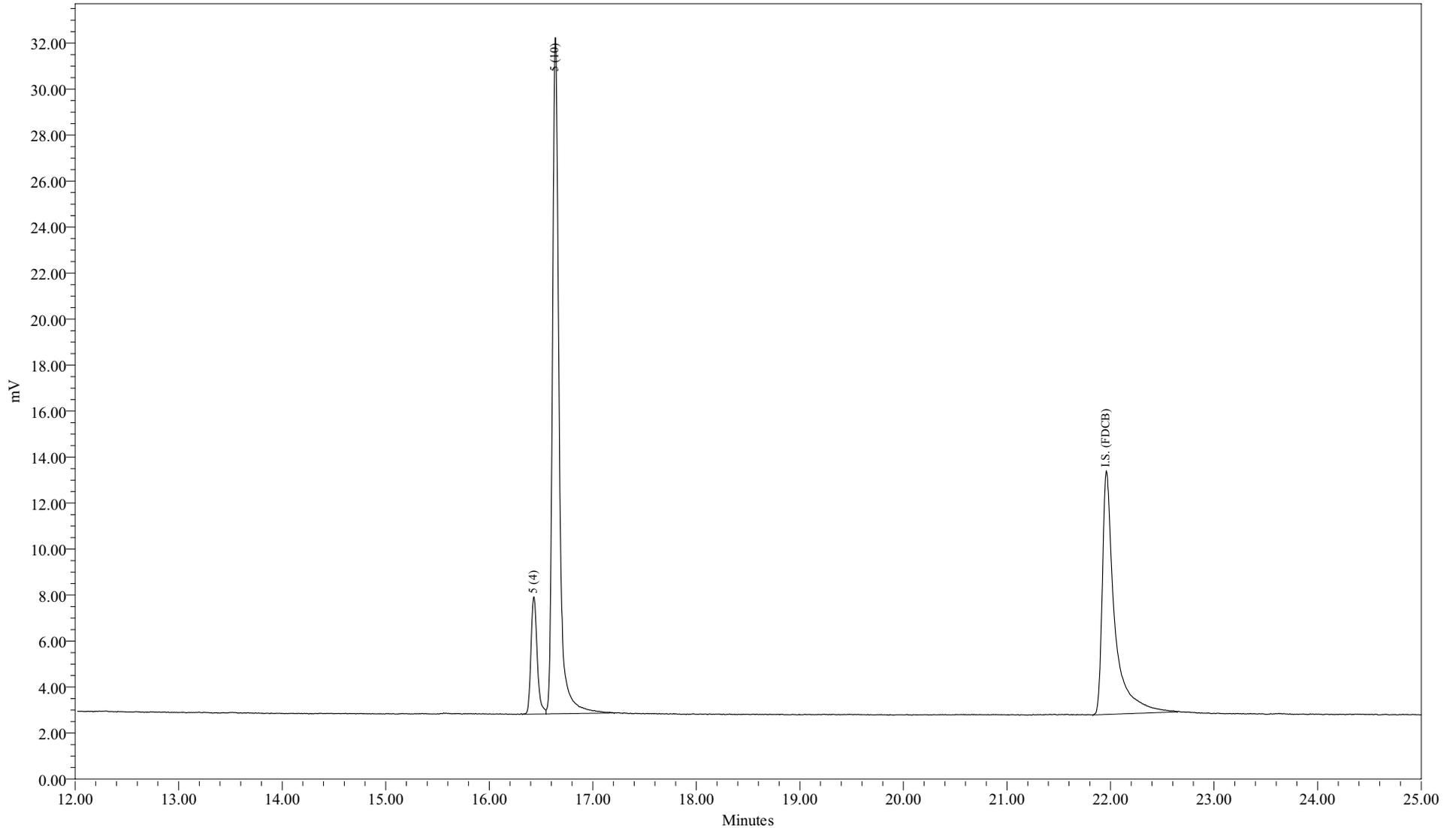
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICBZ0520C                | Sample Amount:  | 1                        |
| Sample ID:         | IUPAC 4-10 5.0 ng/mL     | Dilution:       | 1                        |
| Date Acquired:     | 5/21/2015 1:26:42 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC30_Jan_2015            | Date Processed: | 5/21/2015 4:43:50 PM EDT |
| Sample Set Name:   | GC30_CC_052015           | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | GC30_410_1X_052015       | Current Date:   | 5/21/2015                |
| Run Time:          | 38.0 Minutes             | Current Time:   | 4:59:22 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC30-453-8 [m]           |

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | 5 (4)                             | 16.434            | 4279             | 5.000                   | 5.000                | 0.180018                    |
| 2 | 5 (10)                            | 16.643            | 28664            | 5.000                   | 5.000                | 1.205850                    |
| 3 | I.S. (FDCB)                       | 21.964            | 86430            | 18.180                  | 18.180               | 4754.105536                 |



Sample Name: ICBZ0520D  
Sample ID: IUPAC 4-10 25.0 ng/mL  
Date Acquired: 5/21/2015 2:13:57 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-9 [m]

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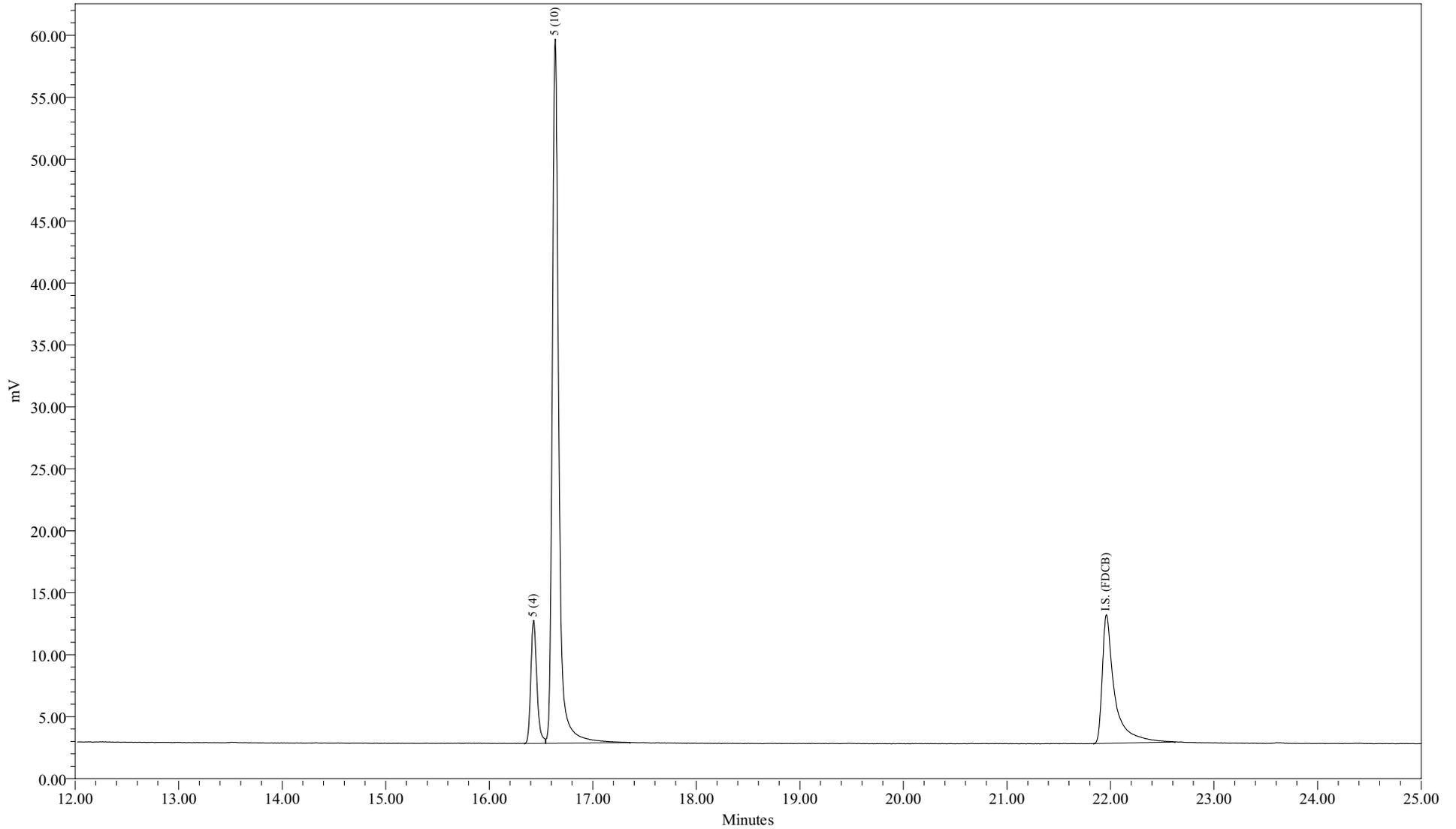
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | ICBZ0520D                | Sample Amount:  | 1                        |
| Sample ID:         | IUPAC 4-10 25.0 ng/mL    | Dilution:       | 1                        |
| Date Acquired:     | 5/21/2015 2:13:57 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC30_Jan_2015            | Date Processed: | 5/21/2015 4:43:51 PM EDT |
| Sample Set Name:   | GC30_CC_052015           | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | GC30_410_1X_052015       | Current Date:   | 5/21/2015                |
| Run Time:          | 38.0 Minutes             | Current Time:   | 4:59:22 PM US/Eastern    |
| Report Name:       | CSGB_CalStd_rpt          | LIMS File ID:   | GC30-453-9 [m]           |

**Peak Results**

|   | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | 5 (4)                            | 16.431            | 21184            | 25.000                  | 25.000               | 0.176518                    |
| 2 | 5 (10)                           | 16.639            | 131715           | 25.000                  | 25.000               | 1.097524                    |
| 3 | I.S. (FDCB)                      | 21.960            | 87272            | 18.180                  | 18.180               | 4800.425972                 |



Sample Name: ICBZ0520E  
Sample ID: IUPAC 4-10 50.0 ng/mL  
Date Acquired: 5/21/2015 3:01:06 AM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-10 [m]

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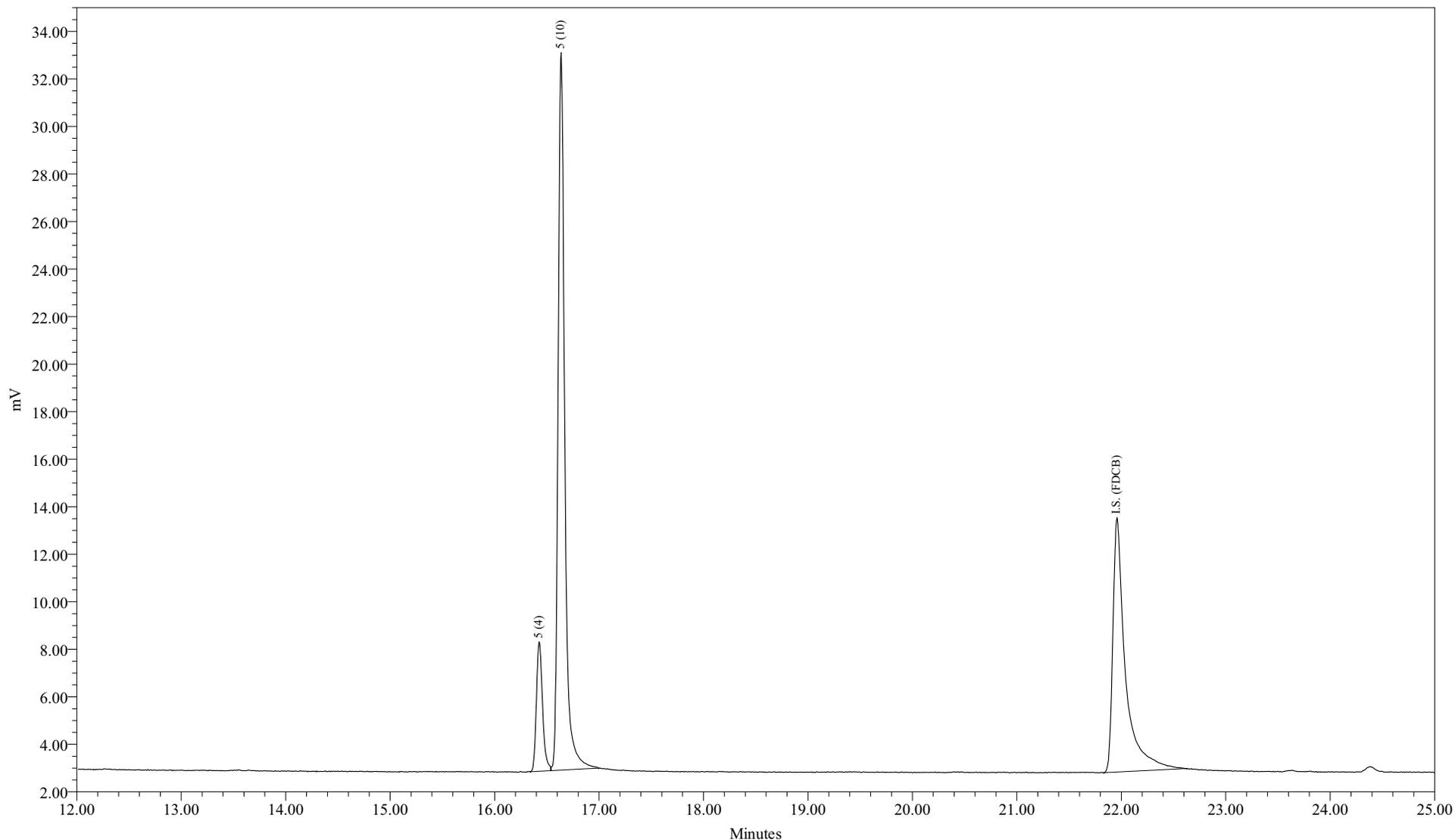
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Sample Name: ICBZ0520E Sample Amount: 1  
Sample ID: IUPAC 4-10 50.0 ng/mL Dilution: 1  
Date Acquired: 5/21/2015 3:01:06 AM EDT Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 5/21/2015 4:43:53 PM EDT  
Sample Set Name: GC30\_CC\_052015 User Name: Amie Hamilton (AmieH)  
Processing Method: GC30\_410\_1X\_052015 Current Date: 5/21/2015  
Run Time: 38.0 Minutes Current Time: 4:59:22 PM US/Eastern  
Report Name: CSGB\_CalStd\_rpt LIMS File ID: GC30-453-10 [m]

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ppb | Relative Response<br>Factor |
|---|-----------------------------------|-------------------|------------------|-------------------------|----------------------|-----------------------------|
| 1 | 5 (4)                             | 16.428            | 40167            | 50.000                  | 50.000               | 0.170303                    |
| 2 | 5 (10)                            | 16.637            | 247706           | 50.000                  | 50.000               | 1.050231                    |
| 3 | I.S. (FDCB)                       | 21.961            | 85758            | 18.180                  | 18.180               | 4717.163157                 |



Sample Name: CCCS0520AA  
Sample ID: CCCS Std 25.0 ng/mL  
Date Acquired: 5/21/2015 4:35:25 AM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-12 [m]

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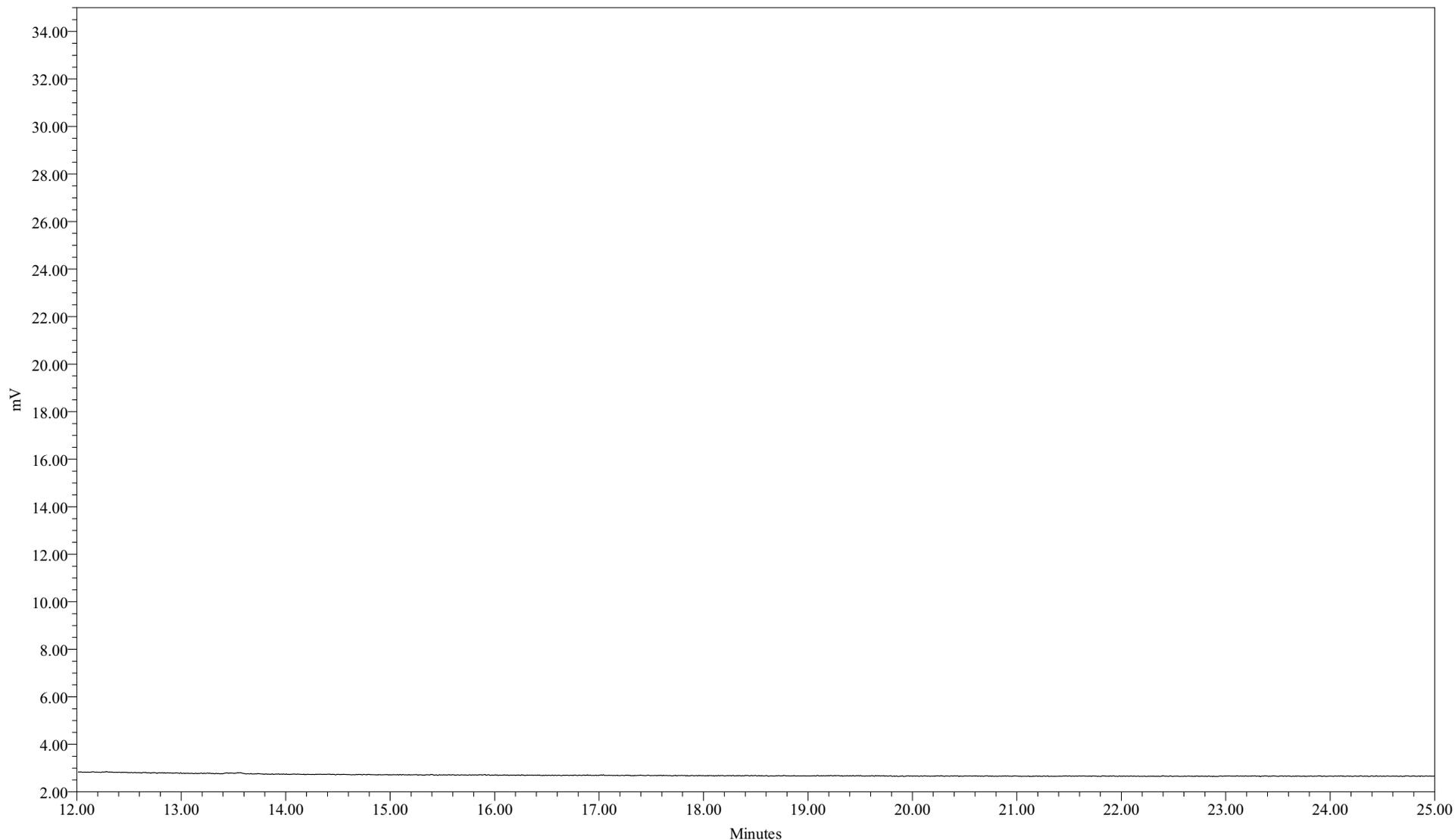
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CCCS0520AA               | Sample Amount:  | 1                        |
| Sample ID:         | CCCS Std 25.0 ng/mL      | Dilution:       | 1                        |
| Date Acquired:     | 5/21/2015 4:35:25 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC30_Jan_2015            | Date Processed: | 5/21/2015 4:45:05 PM EDT |
| Sample Set Name:   | GC30_CC_052015           | User Name:      | Amie Hamilton (AmieH)    |
| Processing Method: | GC30_410_1X_052015       | Current Date:   | 5/21/2015                |
| Run Time:          | 38.0 Minutes             | Current Time:   | 4:59:29 PM US/Eastern    |
| Report Name:       | CSGB_ChkStd_rpt_ng_mL    | LIMS File ID:   | GC30-453-12 [m]          |

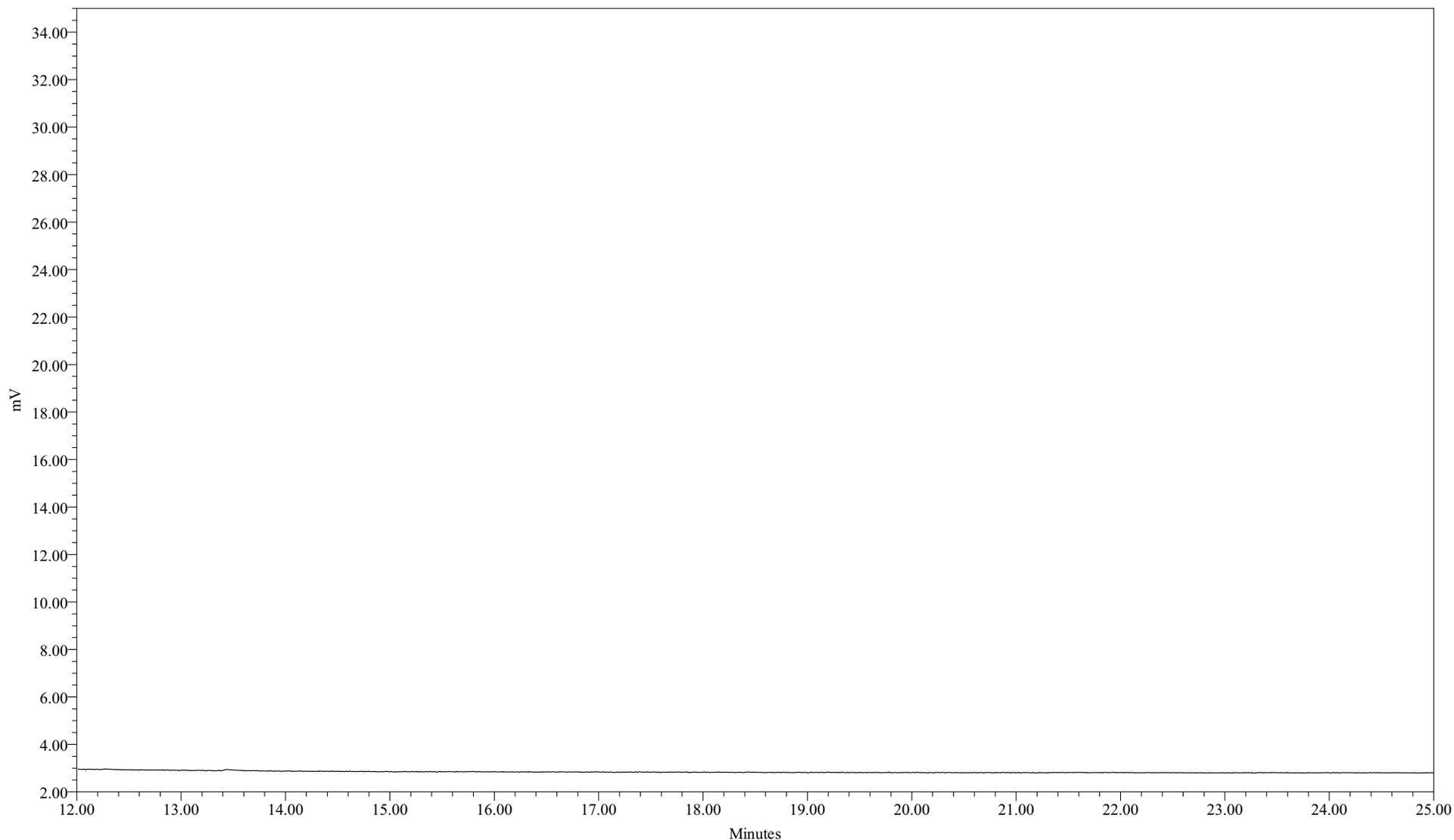
**Peak Results**

|     | DB-1 PeakNumber<br>(PCB IUPAC #) | Ret Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>ng/mL | Sample Amount<br>ng/mL |
|-----|----------------------------------|-------------------|------------------|-------------------------|------------------------|
| 1   | 5 (4)                            | 16.427            | 22174            | 26.207                  | 26.207                 |
| 2   | 5 (10)                           | 16.637            | 133491           | 25.375                  | 25.375                 |
| Sum |                                  |                   |                  |                         | 51.58                  |



Sample Name: 150520B05  
Sample ID: HEXANE BLANK  
Date Acquired: 5/20/2015 11:04:57 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-5 [A]



Sample Name: 150520B06  
Sample ID: HEXANE BLANK  
Date Acquired: 5/21/2015 3:48:18 AM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-453-11 [A]





**Pace Analytical Services, Inc.**

**CSGB-410 CONTINUING CALIBRATION SUMMARY**

**25 ng/mL LOW LEVEL STANDARD**

**Percent Difference Data**

| Peak Number<br>DB-1 | Peak Data         |                                 | Continuing Calibration<br>CCCS0611AB<br>File ID: GC30-458-6 |                       | Continuing Calibration |                       | Continuing Calibration |                       |
|---------------------|-------------------|---------------------------------|---|-----------------------|------------------------|-----------------------|------------------------|-----------------------|
|                     | Amount<br>(ng/ml) | Percent<br>Difference<br>Limits | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)      | Percent<br>Difference | Amount<br>(ng/ml)      | Percent<br>Difference |
| 5 (4)               | 25                | +/-15                           | 26.2  | 4.83                  |                        |                       |                        |                       |
| 5 (10)              | 25                | +/-15                           | 25.0  | 0.0265                |                        |                       |                        |                       |

**Pace Analytical Services, Inc.**

CSGB-410 CONTINUING CALIBRATION SUMMARY

25 ng/mL LOW LEVEL STANDARD

Percent Difference Data

| Peak Number<br>DB-1 | Peak Data         |                                 | Continuing Calibration<br>CCCS0610AA<br>File ID: GC30-457-4 |                       | Continuing Calibration<br>CCCS0610AB<br>File ID: GC30-457-8 |                       | Continuing Calibration<br>CCCS0611AA<br>File ID: GC30-458-4 |                       |
|---------------------|-------------------|---------------------------------|---|-----------------------|---|-----------------------|---|-----------------------|
|                     | Amount<br>(ng/ml) | Percent<br>Difference<br>Limits | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference | Amount<br>(ng/ml)   | Percent<br>Difference |
| 5 (4)               | 25                | +/-15                           | 26.2  | 4.61                  | 26.1  | 4.35                  | 26.6  | 6.46                  |
| 5 (10)              | 25                | +/-15                           | 25.1  | 0.547                 | 25.0  | -0.0275               | 25.4  | 1.65                  |

**Pace Analytical Services, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY  
 RETENTION TIME WINDOW VERIFICATION

|   | Peak Number<br>DB-1 | Retention Time Window<br>CCCS0610AA | CCCS0611AA<br>File ID: GC30-458-4 |      | CCCS0611AB<br>File ID: GC30-458-6 |      | Retention Time | Flag |
|---|---------------------|-------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|   |                     |                                     | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 1 | 5 (4)               | +/-0.07                             | 16.40                             |      | 16.40                             |      |                |      |
| 2 | 5 (10)              | +/-0.07                             | 16.61                             |      | 16.61                             |      |                |      |

**Pace Analytical Services, Inc.**  
 PCB CONTINUING CALIBRATION SUMMARY  
 RETENTION TIME WINDOW VERIFICATION

|   | Peak Number<br>DB-1 | Retention Time Window<br>CCCS0610AA | CCCS0610AA<br>File ID: GC30-457-4 |      | CCCS0610AB<br>File ID: GC30-457-8 |      | Retention Time | Flag |
|---|---------------------|-------------------------------------|-----------------------------------|------|-----------------------------------|------|----------------|------|
|   |                     |                                     | Retention Time                    | Flag | Retention Time                    | Flag |                |      |
| 1 | 5 (4)               | +/-0.07                             | 16.41                             |      | 16.40                             |      |                |      |
| 2 | 5 (10)              | +/-0.07                             | 16.62                             |      | 16.61                             |      |                |      |

# CALIBRATION COMPONENT SUMMARY TABLE (GC30)

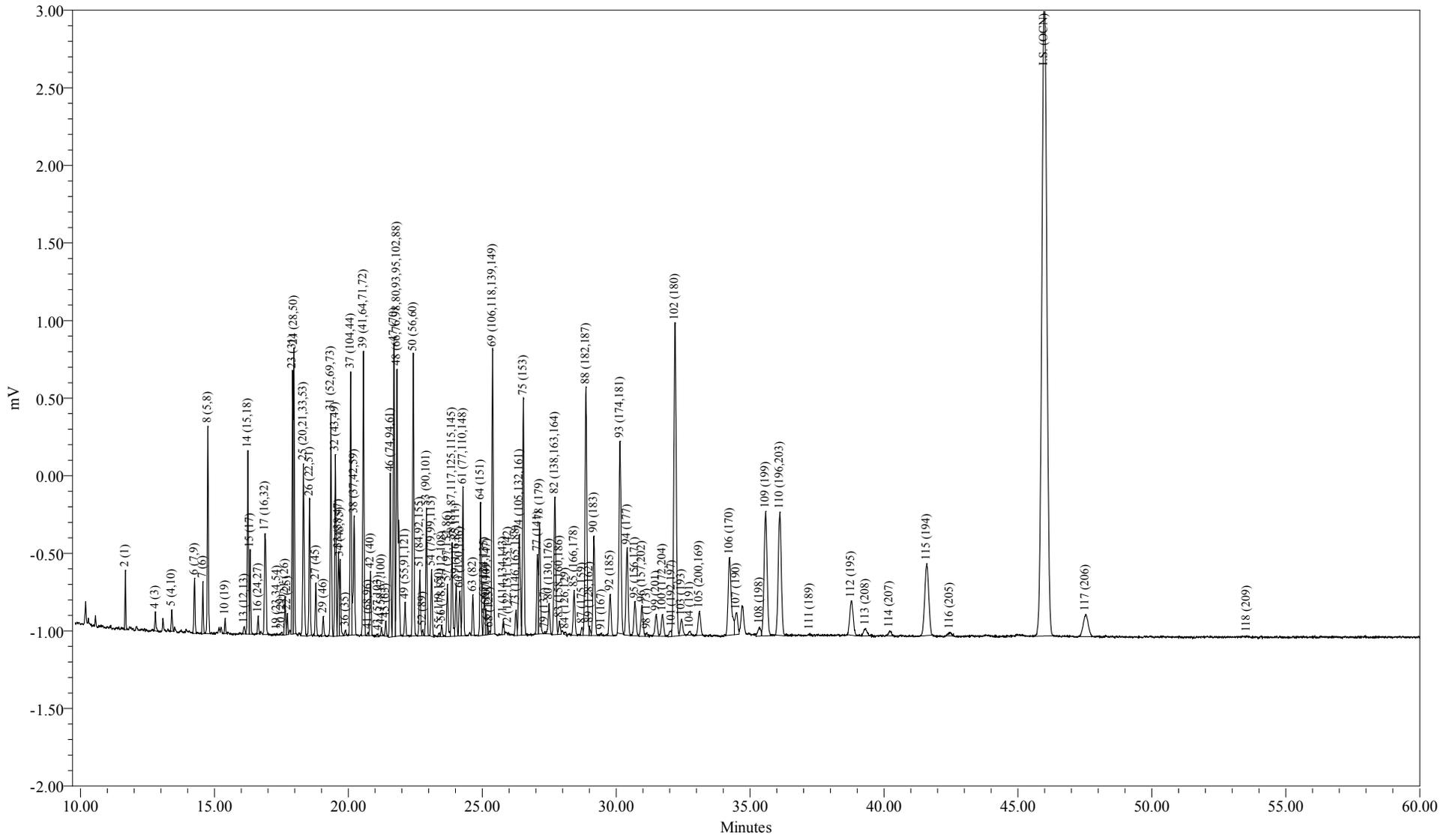


Project Name: GC30\_Jan\_2015 Current Time: 09:30:10  
 Sample Set Name: GC30\_CC\_052015 Current Date: 6/23/2015  
 Processing Method: GC30\_410\_1X\_052015 Calibration ID: 1962  
 Run Time: 38 Minutes Calibration Date(s): 05/20/2015,05/21/2015

**Correlation Summary**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Correlation<br>Coefficient | Equation                      | Value A             | Value B           |
|---|-----------------------------------|----------------------------|-------------------------------|---------------------|-------------------|
| 1 | 5 (4)                             | 0.999806                   | $Y = 1.73e-001 X + 2.32e-003$ | 0.00232118089548017 | 0.172780950242607 |
| 2 | 5 (10)                            | 0.999324                   | $Y = 1.07e+000 X + 3.67e-002$ | 0.0366650304794511  | 1.07335470784911  |
| 3 | I.S. (FDCB)                       | 1.000000                   | $Y = 4.73e+003 X$             | 0                   | 4729.0779217708   |

# STANDARDS RAW DATA (GC24)



Sample Name: CCCS0610A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/10/2015 5:09:59 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1177-3 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 17:09:59  
 Lab Sample ID: CCCS0610A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 136 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 11.28    | 16.80  |
| Di       | 11.99    | 15.03  |
| Tri      | 17.79    | 19.40  |
| Tetra    | 21.82    | 21.07  |
| Penta    | 8.38     | 7.17   |
| Hexa     | 7.38     | 5.80   |
| Hepta    | 13.29    | 9.47   |
| Octa     | 7.40     | 4.84   |
| Nona     | 0.67     | 0.40   |
| Deca     | 0.01     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 8.5048            | 37.8     | 31.1  |
| A1242    | 23+24/31+28                        | 6.7841            | 30.1     | 24.8  |
| A1254SED | 61/100                             | 1.7357            | 7.71     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.5708            |          | 24.0  |
| A1260    | 102/180                            | 4.2945            | 19.1     | 15.7  |
| A1268    | 115/194                            | 1.1986            | 5.32     | 4.38  |

Ortho Cl / biphenyl Residue = 1.56  
 Meta + Para Cl / biphenyl Residue = 2.12  
 Total Cl / biphenyl Residue = 3.69

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 17:09:59  
 Lab Sample ID: CCCS0610A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-3

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 719       | 8.50           | 45.1                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 319       | 6.80           | 36.0                  |             |            |      |
| 5                | 13.40          | 223.1            | 404       | 2.21           | 9.90                  |             |            |      |
| 6                | 14.26          | 223.1            | 1033      | 0.830          | 3.72                  |             |            |      |
| 7                | 14.57          | 223.1            | 808       | 1.29           | 5.79                  |             |            |      |
| 8                | 14.75          | 223.1            | 3547      | 11.0           | 49.1                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.40          | 257.5            | 233       | 0.256          | 0.996                 |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.11          | 223.1            | 178       | 0.185          | 0.830                 |             |            |      |
| 14               | 16.25          | 249.0            | 3396      | 3.20           | 12.8                  |             |            |      |
| 15               | 16.33          | 257.5            | 1462      | 3.05           | 11.9                  |             |            |      |
| 16               | 16.63          | 257.5            | 297       | 0.206          | 0.800                 |             |            |      |
| 17               | 16.89          | 257.5            | 2792      | 3.27           | 12.7                  |             |            |      |
| 19               | 17.33          | 267.9            | 22        | 0.0208         | 0.0778                |             |            |      |
| 20               | 17.51          | 257.5            | 71        | 0.0665         | 0.258                 |             |            |      |
| 21               | 17.64          | 257.5            | 725       | 0.700          | 2.72                  |             |            |      |
| 22               | 17.72          | 257.5            | 366       | 0.282          | 1.09                  |             |            |      |
| 23               | 17.92          | 257.5            | 4557      | 3.34           | 13.0                  |             |            |      |
| 24               | 17.97          | 257.5            | 5300      | 3.44           | 13.4                  |             |            |      |
| 25               | 18.32          | 259.5            | 3990      | 3.39           | 13.1                  |             |            |      |
| 26               | 18.55          | 258.7            | 2581      | 2.39           | 9.23                  |             |            |      |
| 27               | 18.79          | 292.0            | 991       | 0.807          | 2.76                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.06          | 292.0            | 379       | 0.347          | 1.19                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4358      | 4.40           | 15.1                  |             |            |      |
| 32               | 19.51          | 292.0            | 3591      | 1.85           | 6.33                  |             |            |      |
| 33               | 19.63          | 292.0            | 1663      | 0.615          | 2.11                  |             |            |      |
| 34               | 19.69          | 292.0            | 1573      | 0.840          | 2.88                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.89          | 257.5            | 118       | 0.146          | 0.566                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5238      | 3.49           | 12.0                  |             |            |      |
| 38               | 20.22          | 272.4            | 2968      | 2.55           | 9.37                  |             |            |      |
| 39               | 20.56          | 292.0            | 5820      | 3.09           | 10.6                  |             |            |      |
| 41               | 20.74          | 326.4            | 67        | 0.0553         | 0.169                 |             |            |      |
| 42               | 20.83          | 292.0            | 1262      | 0.838          | 2.87                  |             |            |      |
| 43               | 21.10          | 298.9            | 82        | 0.0498         | 0.167                 |             |            |      |
| 44               | 21.24          | 298.9            | 152       | 0.0693         | 0.232                 |             |            |      |
| 45               | 21.40          | 292.0            | 296       | 0.150          | 0.515                 |             |            |      |
| 46               | 21.57          | 292.0            | 3259      | 1.16           | 3.97                  |             |            |      |
| 47               | 21.70          | 292.0            | 6072      | 2.71           | 9.28                  |             |            |      |
| 48               | 21.82          | 293.5            | 7920      | 5.32           | 18.1                  |             |            |      |
| 49               | 22.12          | 324.7            | 706       | 0.454          | 1.40                  |             |            |      |
| 50               | 22.42          | 292.0            | 5976      | 2.75           | 9.41                  |             |            |      |
| 51               | 22.67          | 326.4            | 1488      | 1.76           | 5.38                  |             |            |      |
| 52               | 22.78          | 326.4            | 104       | 0.0687         | 0.210                 |             |            |      |
| 53               | 22.92          | 326.4            | 2656      | 1.39           | 4.26                  |             |            |      |
| 54               | 23.11          | 326.4            | 1391      | 0.486          | 1.49                  |             |            |      |
| 55               | 23.40          | 326.4            | 80        | 0.0202         | 0.0620                |             |            |      |
| 56               | 23.49          | 326.4            | 247       | 0.153          | 0.467                 |             |            |      |
| 57               | 23.70          | 326.4            | 1230      | 0.516          | 1.58                  |             |            |      |
| 58               | 23.87          | 326.4            | 2089      | 1.02           | 3.13                  |             |            |      |
| 59               | 24.02          | 326.4            | 1131      | 0.461          | 1.41                  |             |            |      |
| 60               | 24.16          | 360.9            | 1137      | 0.544          | 1.51                  |             |            |      |
| 61               | 24.28          | 326.4            | 3160      | 1.74           | 5.32                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 841       | 0.389          | 1.19                  |             |            |      |
| 64               | 24.94          | 360.9            | 2922      | 1.40           | 3.88                  |             |            |      |
| 65               | 25.08          | 350.5            | 754       | 0.216          | 0.616                 |             |            |      |
| 66               | 25.13          | 360.9            | 532       | 0.446          | 1.24                  |             |            |      |
| 67               | 25.18          | 336.8            | 181       | 0.105          | 0.312                 |             |            |      |
| 68               | 25.27          | 326.4            | 58        | 0.0271         | 0.0832                |             |            |      |
| 69               | 25.39          | 337.5            | 6812      | 2.95           | 8.74                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 296       | 0.138          | 0.398                 |             |            |      |
| 72               | 25.96          | 336.8            | 41        | 0.0133         | 0.0395                |             |            |      |
| 73               | 26.26          | 360.9            | 612       | 0.270          | 0.748                 |             |            |      |
| 74               | 26.38          | 347.8            | 3030      | 1.01           | 2.91                  |             |            |      |
| 75               | 26.53          | 360.9            | 5711      | 1.97           | 5.46                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.06          | 360.9            | 1959      | 1.20           | 3.32                  |             |            |      |
| 78               | 27.14          | 395.3            | 2951      | 1.37           | 3.47                  |             |            |      |
| 79               | 27.33          | 360.9            | 22        | 0.0329         | 0.0912                |             |            |      |
| 80               | 27.49          | 360.9            | 826       | 0.207          | 0.575                 |             |            |      |
| 82               | 27.71          | 360.9            | 4363      | 1.65           | 4.58                  |             |            |      |
| 83               | 27.88          | 360.9            | 366       | 0.144          | 0.398                 |             |            |      |
| 84               | 28.10          | 360.9            | 74        | 0.0103         | 0.0285                |             |            |      |
| 85               | 28.43          | 395.3            | 1322      | 1.01           | 2.56                  |             |            |      |
| 87               | 28.73          | 395.3            | 213       | 0.163          | 0.413                 |             |            |      |
| 88               | 28.87          | 395.3            | 7844      | 3.02           | 7.63                  |             |            |      |
| 89               | 29.00          | 360.9            | 179       | 0.0548         | 0.152                 |             |            |      |
| 90               | 29.17          | 395.3            | 3153      | 1.31           | 3.33                  |             |            |      |
| 91               | 29.44          | 360.9            | 40        | 0.0250         | 0.0693                |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.77          | 394.3            | 1363      | 0.397          | 1.01                  |             |            |      |
| 93               | 30.14          | 394.3            | 6602      | 2.62           | 6.64                  |             |            |      |
| 94               | 30.41          | 394.3            | 2994      | 1.36           | 3.46                  |             |            |      |
| 95               | 30.70          | 382.2            | 1232      | 0.554          | 1.45                  |             |            |      |
| 96               | 30.96          | 429.8            | 1135      | 0.0701         | 0.163                 |             |            |      |
| 98               | 31.15          | 395.3            | 115       | 0.0480         | 0.122                 |             |            |      |
| 99               | 31.49          | 429.8            | 810       | 0.367          | 0.853                 |             |            |      |
| 100              | 31.73          | 395.3            | 848       | 0.431          | 1.09                  |             |            |      |
| 101              | 32.07          | 429.8            | 235       | 0.186          | 0.434                 |             |            |      |
| 102              | 32.20          | 395.3            | 12553     | 4.29           | 10.9                  |             |            |      |
| 103              | 32.43          | 395.3            | 632       | 0.330          | 0.834                 |             |            |      |
| 104              | 32.75          | 395.3            | 145       | 0.0741         | 0.188                 |             |            |      |
| 105              | 33.11          | 429.8            | 984       | 0.403          | 0.937                 |             |            |      |
| 106              | 34.24          | 395.3            | 4209      | 0.946          | 2.39                  |             |            |      |
| 107              | 34.49          | 395.3            | 1002      | 0.298          | 0.754                 |             |            |      |
| 108              | 35.35          | 429.8            | 419       | 0.140          | 0.325                 |             |            |      |
| 109              | 35.58          | 429.8            | 6272      | 3.79           | 8.82                  |             |            |      |
| 110              | 36.11          | 429.8            | 6279      | 3.39           | 7.89                  |             |            |      |
| 111              | 37.23          | 395.3            | 53        | 0.0137         | 0.0347                |             |            |      |
| 112              | 38.78          | 429.8            | 1998      | 0.422          | 0.982                 |             |            |      |
| 113              | 39.30          | 464.2            | 431       | 0.292          | 0.628                 |             |            |      |
| 114              | 40.20          | 464.2            | 219       | 0.0795         | 0.171                 |             |            |      |
| 115              | 41.59          | 429.8            | 4782      | 1.20           | 2.79                  |             |            |      |
| 116              | 42.45          | 429.8            | 202       | 0.0769         | 0.179                 |             |            |      |
| 117              | 47.52          | 464.2            | 1857      | 0.534          | 1.15                  |             |            |      |
| 118              | 53.54          | 498.6            | 25        | 0.0109         | 0.0219                |             |            |      |

Total Concentration = 136 ng/mL

Total Nanomoles = 0.483

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 45.98 minutes

OCN Internal Standard Peak Area = 53813.8

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 17:09:59  
 Lab Sample ID: CCCS0610A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-3

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2538 | 2                          | 6.267             | 9.339           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2784 | 4                          | 5.010             | 7.466           |
| 5                                | 13.40             | 2:2       | 004 010              | 0.2914 | 2-2; 26                    | 1.628             | 2.052           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3101 | 24; 25                     | 0.612             | 0.771           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3169 | 2-3                        | 0.952             | 1.200           |
| 8                                | 14.75             | 2:1       | 005 008              | 0.3208 | 23; 2-4                    | 8.075             | 10.177          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.40             | 3:3       | 019                  | 0.3349 | 26-2                       | 0.189             | 0.206           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.11             | 2:0       | 012 013              | 0.3504 | 34; 3-4                    | 0.137             | 0.172           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3534 | 4-4; 25-2                  | 2.355             | 2.659           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3552 | 24-2                       | 2.250             | 2.457           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3617 | 236; 26-3                  | 0.152             | 0.166           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3673 | 23-2; 26-4                 | 2.408             | 2.629           |
| 19                               | 17.33             | 3:1 4:4   | 023 034 054          | 0.3769 | 235; 35-2; 26-26           | 0.015             | 0.016           |
| 20                               | 17.51             | 3:1       | 029                  | 0.3808 | 245                        | 0.049             | 0.053           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3836 | 25-3                       | 0.516             | 0.563           |
| 22                               | 17.72             | 3:1       | 025                  | 0.3854 | 24-3                       | 0.208             | 0.227           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3897 | 25-4                       | 2.461             | 2.688           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3908 | 24-4; 246-2                | 2.538             | 2.771           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3984 | 23-3; 234; 34-2; 25-26     | 2.502             | 2.711           |
| 26                               | 18.55             | 3:1 4:3   | 022 051              | 0.4034 | 23-4; 24-26                | 1.759             | 1.912           |
| 27                               | 18.79             | 4:3       | 045                  | 0.4087 | 236-2                      | 0.595             | 0.573           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.06             | 4:3       | 046                  | 0.4145 | 23-26                      | 0.256             | 0.246           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4208 | 25-25; 246-3; 26-35        | 3.239             | 3.119           |
| 32                               | 19.51             | 4:2       | 043 049              | 0.4243 | 235-2; 24-25               | 1.363             | 1.312           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4269 | 345; 24-24                 | 0.453             | 0.436           |
| 34                               | 19.69             | 4:2       | 048 075              | 0.4282 | 245-2; 246-4               | 0.619             | 0.596           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.89             | 3:0       | 035                  | 0.4326 | 34-3                       | 0.107             | 0.117           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4369 | 246-26; 23-25              | 2.573             | 2.477           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4398 | 34-4; 23-24; 236-3         | 1.881             | 1.941           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4472 | 234-2; 236-4; 26-34; 25-35 | 2.276             | 2.192           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.74             | 5:4       | 068 096                         | 0.4511 | 24-35; 236-26   | 0.041             | 0.035           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4530 | 23-23   | 0.617             | 0.595           |
| 43                               | 21.10             | 4:1 5:3   | 057 103                         | 0.4589 | 235-3; 246-25   | 0.037             | 0.035           |
| 44                               | 21.24             | 4:1 5:3   | 058 067 100                     | 0.4619 | 23-35; 245-3; 246-24  | 0.051             | 0.048           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4654 | 235-4   | 0.111             | 0.107           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4691 | 245-4; 235-26; 2345   | 0.855             | 0.823           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4719 | 25-34   | 1.997             | 1.923           |
| 48                               | 21.82             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4746 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.922             | 3.757           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4811 | 234-3; 236-24; 246-35                                       | 0.335             | 0.290           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4876 | 23-34; 234-4  | 2.025             | 1.950           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4930 | 236-23; 235-25; 246-246                                     | 1.294             | 1.115           |
| 52                               | 22.78             | 5:3       | 089                             | 0.4954 | 234-26  | 0.051             | 0.044           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4985 | 235-24; 245-25  | 1.025             | 0.883           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5026 | 34-35; 245-24; 236-35                                       | 0.358             | 0.308           |
| 55                               | 23.40             | 5:2 6:4   | 119 150                         | 0.5089 | 246-34; 236-246   | 0.015             | 0.013           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5109 | 345-3; 235-23; 2356-3; 2346-3                               | 0.112             | 0.097           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5154 | 245-23; 2356-26; 2345-2                                     | 0.380             | 0.328           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5191 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.753             | 0.649           |
| 59                               | 24.02             | 5:2       | 116 085 111                     | 0.5224 | 23456; 234-24; 235-35                                       | 0.340             | 0.293           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5254 | 245-35; 236-236   | 0.401             | 0.312           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5281 | 34-34; 236-34; 235-246                                      | 1.279             | 1.102           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5361 | 234-23  | 0.287             | 0.247           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5424 | 2356-25   | 1.033             | 0.805           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5455 | 345-25; 235-236   | 0.159             | 0.128           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5465 | 2346-25   | 0.329             | 0.256           |
| 67                               | 25.18             | 5:1 6:3   | 107 109 147                     | 0.5476 | 234-35; 235-34; 2356-24                                     | 0.077             | 0.065           |
| 68                               | 25.27             | 5:1       | 123                             | 0.5496 | 345-24  | 0.020             | 0.017           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5522 | 2345-3; 245-34; 2346-24; 236-245                            | 2.172             | 1.810           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5607 | 2345-4; 2356-23; 2345-26                                    | 0.102             | 0.083           |
| 72                               | 25.96             | 5:1 6:3   | 122 131 133 142                 | 0.5646 | 345-23; 2346-23; 235-235; 23456-2                           | 0.010             | 0.008           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5711 | 235-245; 2356-35; 2356-246                                  | 0.199             | 0.155           |
| 74                               | 26.38             | 5:1 6:3   | 105 132 161                     | 0.5737 | 234-34; 234-236; 2346-35                                    | 0.746             | 0.604           |
| 75                               | 26.53             | 6:2       | 153                             | 0.5770 | 245-245   | 1.451             | 1.131           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.06             | 6:2       | 141                             | 0.5885 | 2345-25   | 0.884             | 0.689           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5903 | 2356-236  | 1.012             | 0.720           |
| 79                               | 27.33             | 6:2       | 137                             | 0.5944 | 2345-24   | 0.024             | 0.019           |
| 80                               | 27.49             | 6:2 7:4   | 130 176                         | 0.5979 | 234-235; 2346-236   | 0.153             | 0.119           |
| 82                               | 27.71             | 6:2       | 138 163 164                     | 0.6027 | 234-245; 2356-34; 236-345                                   | 1.218             | 0.949           |
| 83                               | 27.88             | 6:2       | 158 160 186                     | 0.6064 | 2346-34; 23456-3; 23456-26                                  | 0.106             | 0.083           |
| 84                               | 28.10             | 6:2       | 126 129                         | 0.6111 | 345-34; 2345-23   | 0.008             | 0.006           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6183 | 23456-4; 2356-235   | 0.746             | 0.531           |
| 87                               | 28.73             | 7:3       | 175 159                         | 0.6248 | 2346-235; 2345-35   | 0.120             | 0.086           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6279 | 2345-246; 2356-245  | 2.224             | 1.582           |
| 89                               | 29.00             | 6:2       | 128 162                         | 0.6307 | 234-234; 235-345  | 0.040             | 0.031           |
| 90                               | 29.17             | 7:3       | 183                             | 0.6344 | 2346-245  | 0.969             | 0.689           |
| 91                               | 29.44             | 6:1       | 167                             | 0.6403 | 245-345   | 0.018             | 0.014           |
| 92                               | 29.77             | 7:3       | 185                             | 0.6475 | 23456-25  | 0.292             | 0.208           |
| 93                               | 30.14             | 7:3       | 174 181                         | 0.6555 | 2345-236; 23456-24  | 1.930             | 1.377           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6614 | 2356-234  | 1.005             | 0.717           |
| 95                               | 30.70             | 6:1 7:3   | 156 171                         | 0.6677 | 2345-34; 2346-234   | 0.408             | 0.300           |
| 96                               | 30.96             | 8:4       | 157 202                         | 0.6733 | 234-345; 2356-2356  | 0.052             | 0.034           |
| 98                               | 31.15             | 7:3       | 173                             | 0.6775 | 23456-23  | 0.035             | 0.025           |
| 99                               | 31.49             | 8:4       | 201                             | 0.6849 | 2346-2356   | 0.270             | 0.177           |
| 100                              | 31.73             | 7:2       | 172 204                         | 0.6901 | 2345-235; 23456-246   | 0.318             | 0.226           |
| 101                              | 32.07             | 8:4       | 192 197                         | 0.6975 | 23456-35; 2346-2346   | 0.137             | 0.090           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7003 | 2345-245  | 3.165             | 2.251           |
| 103                              | 32.43             | 7:2       | 193                             | 0.7053 | 2356-345  | 0.243             | 0.173           |
| 104                              | 32.75             | 7:2       | 191                             | 0.7123 | 2346-345  | 0.055             | 0.039           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7201 | 23456-236; 345-345  | 0.297             | 0.194           |
| 106                              | 34.24             | 7:2       | 170                             | 0.7447 | 2345-234  | 0.697             | 0.496           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.49             | 7:2       | <b>190</b>           | 0.7501 | 23456-34               | 0.220             | 0.156           |
| 108                              | 35.35             | 8:3       | <b>198</b>           | 0.7688 | 23456-235              | 0.103             | 0.067           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7738 | 2345-2356              | 2.792             | 1.827           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7853 | 2345-2346; 23456-245   | 2.498             | 1.634           |
| 111                              | 37.23             | 7:1       | <b>189</b>           | 0.8097 | 2345-345               | 0.010             | 0.007           |
| 112                              | 38.78             | 8:3       | <b>195</b>           | 0.8434 | 23456-234              | 0.311             | 0.204           |
| 113                              | 39.30             | 9:4       | <b>208</b>           | 0.8547 | 23456-2356             | 0.215             | 0.130           |
| 114                              | 40.20             | 9:4       | <b>207</b>           | 0.8743 | 23456-2346             | 0.059             | 0.035           |
| 115                              | 41.59             | 8:2       | <b>194</b>           | 0.9045 | 2345-2345              | 0.883             | 0.578           |
| 116                              | 42.45             | 8:2       | <b>205</b>           | 0.9232 | 23456-345              | 0.057             | 0.037           |
| 117                              | 47.52             | 9:3       | <b>206</b>           | 1.033  | 23456-2345             | 0.393             | 0.238           |
| 118                              | 53.54             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.008             | 0.005           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 136 ng/mL

Total Nanomoles = 0.483

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 22:17:24  
 Lab Sample ID: CCCS0610B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 10.16    | 15.21  |
| Di       | 12.50    | 15.76  |
| Tri      | 17.82    | 19.53  |
| Tetra    | 21.98    | 21.33  |
| Penta    | 8.53     | 7.34   |
| Hexa     | 7.53     | 5.94   |
| Hepta    | 13.55    | 9.70   |
| Octa     | 7.36     | 4.84   |
| Nona     | 0.58     | 0.35   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.5071            | 36.3     | 29.7  |
| A1242    | 23+24/31+28                        | 6.3678            | 30.8     | 25.2  |
| A1254SED | 61/100                             | 1.6301            | 7.88     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.1997            |          | 24.5  |
| A1260    | 102/180                            | 4.0481            | 19.6     | 16.0  |
| A1268    | 115/194                            | 1.1451            | 5.53     | 4.53  |

Ortho Cl / biphenyl Residue = 1.59

Meta + Para Cl / biphenyl Residue = 2.14

Total Cl / biphenyl Residue = 3.73

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 22:17:24  
 Lab Sample ID: CCCS0610B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-7

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.68          | 188.7            | 677       | 7.51           | 39.8                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 267       | 5.32           | 28.2                  |             |            |      |
| 5                | 13.41          | 223.1            | 496       | 2.55           | 11.4                  |             |            |      |
| 6                | 14.26          | 223.1            | 1005      | 0.756          | 3.39                  |             |            |      |
| 7                | 14.57          | 223.1            | 811       | 1.21           | 5.45                  |             |            |      |
| 8                | 14.76          | 223.1            | 3601      | 10.4           | 46.7                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.40          | 257.5            | 263       | 0.272          | 1.06                  |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.12          | 223.1            | 111       | 0.107          | 0.480                 |             |            |      |
| 14               | 16.25          | 249.0            | 3383      | 2.98           | 12.0                  |             |            |      |
| 15               | 16.34          | 257.5            | 1427      | 2.79           | 10.9                  |             |            |      |
| 16               | 16.64          | 257.5            | 318       | 0.207          | 0.803                 |             |            |      |
| 17               | 16.89          | 257.5            | 2655      | 2.91           | 11.3                  |             |            |      |
| 19               | 17.33          | 267.9            | 20        | 0.0180         | 0.0673                |             |            |      |
| 20               | 17.50          | 257.5            | 28        | 0.0244         | 0.0949                |             |            |      |
| 21               | 17.64          | 257.5            | 748       | 0.677          | 2.63                  |             |            |      |
| 22               | 17.73          | 257.5            | 488       | 0.353          | 1.37                  |             |            |      |
| 23               | 17.92          | 257.5            | 4623      | 3.18           | 12.3                  |             |            |      |
| 24               | 17.97          | 257.5            | 5246      | 3.19           | 12.4                  |             |            |      |
| 25               | 18.33          | 259.5            | 4071      | 3.25           | 12.5                  |             |            |      |
| 26               | 18.56          | 258.7            | 2523      | 2.19           | 8.45                  |             |            |      |
| 27               | 18.79          | 292.0            | 950       | 0.725          | 2.48                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.07          | 292.0            | 390       | 0.335          | 1.15                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.36          | 292.0            | 4312      | 4.08           | 14.0                  |             |            |      |
| 32               | 19.52          | 292.0            | 3577      | 1.73           | 5.91                  |             |            |      |
| 33               | 19.63          | 292.0            | 1693      | 0.587          | 2.01                  |             |            |      |
| 34               | 19.70          | 292.0            | 1561      | 0.781          | 2.67                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.91          | 257.5            | 109       | 0.126          | 0.490                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5335      | 3.33           | 11.4                  |             |            |      |
| 38               | 20.22          | 272.4            | 2914      | 2.35           | 8.63                  |             |            |      |
| 39               | 20.57          | 292.0            | 5726      | 2.85           | 9.75                  |             |            |      |
| 41               | 20.73          | 326.4            | 114       | 0.0881         | 0.270                 |             |            |      |
| 42               | 20.83          | 292.0            | 1279      | 0.795          | 2.72                  |             |            |      |
| 43               | 21.09          | 298.9            | 134       | 0.0762         | 0.255                 |             |            |      |
| 44               | 21.24          | 298.9            | 226       | 0.0970         | 0.324                 |             |            |      |
| 45               | 21.40          | 292.0            | 288       | 0.137          | 0.469                 |             |            |      |
| 46               | 21.57          | 292.0            | 3189      | 1.06           | 3.64                  |             |            |      |
| 47               | 21.71          | 292.0            | 6049      | 2.53           | 8.66                  |             |            |      |
| 48               | 21.82          | 293.5            | 7928      | 4.99           | 17.0                  |             |            |      |
| 49               | 22.13          | 324.7            | 728       | 0.439          | 1.35                  |             |            |      |
| 50               | 22.43          | 292.0            | 6113      | 2.63           | 9.02                  |             |            |      |
| 51               | 22.67          | 326.4            | 1501      | 1.66           | 5.09                  |             |            |      |
| 52               | 22.78          | 326.4            | 140       | 0.0869         | 0.266                 |             |            |      |
| 53               | 22.92          | 326.4            | 2666      | 1.31           | 4.01                  |             |            |      |
| 54               | 23.11          | 326.4            | 1444      | 0.472          | 1.45                  |             |            |      |
| 55               | 23.39          | 326.4            | 45        | 0.0107         | 0.0327                |             |            |      |
| 56               | 23.49          | 326.4            | 200       | 0.116          | 0.355                 |             |            |      |
| 57               | 23.70          | 326.4            | 1204      | 0.474          | 1.45                  |             |            |      |
| 58               | 23.88          | 326.4            | 2078      | 0.952          | 2.92                  |             |            |      |
| 59               | 24.03          | 326.4            | 1117      | 0.426          | 1.31                  |             |            |      |
| 60               | 24.16          | 360.9            | 1173      | 0.526          | 1.46                  |             |            |      |
| 61               | 24.28          | 326.4            | 3167      | 1.63           | 4.99                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 876       | 0.380          | 1.16                  |             |            |      |
| 64               | 24.94          | 360.9            | 2968      | 1.33           | 3.70                  |             |            |      |
| 65               | 25.08          | 350.5            | 830       | 0.223          | 0.636                 |             |            |      |
| 66               | 25.13          | 360.9            | 499       | 0.392          | 1.09                  |             |            |      |
| 67               | 25.19          | 336.8            | 193       | 0.105          | 0.313                 |             |            |      |
| 68               | 25.32          | 326.4            | 71        | 0.0308         | 0.0942                |             |            |      |
| 69               | 25.39          | 337.5            | 6847      | 2.78           | 8.22                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 363       | 0.159          | 0.457                 |             |            |      |
| 72               | 25.99          | 336.8            | 45        | 0.0135         | 0.0401                |             |            |      |
| 73               | 26.26          | 360.9            | 556       | 0.230          | 0.637                 |             |            |      |
| 74               | 26.39          | 347.8            | 3011      | 0.944          | 2.71                  |             |            |      |
| 75               | 26.54          | 360.9            | 5714      | 1.85           | 5.11                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.07          | 360.9            | 1960      | 1.13           | 3.12                  |             |            |      |
| 78               | 27.14          | 395.3            | 3014      | 1.31           | 3.33                  |             |            |      |
| 79               | 27.37          | 360.9            | 30        | 0.0421         | 0.117                 |             |            |      |
| 80               | 27.50          | 360.9            | 868       | 0.204          | 0.566                 |             |            |      |
| 82               | 27.72          | 360.9            | 4446      | 1.58           | 4.37                  |             |            |      |
| 83               | 27.89          | 360.9            | 363       | 0.133          | 0.370                 |             |            |      |
| 84               | 28.09          | 360.9            | 88        | 0.0115         | 0.0318                |             |            |      |
| 85               | 28.43          | 395.3            | 1349      | 0.970          | 2.45                  |             |            |      |
| 87               | 28.74          | 395.3            | 259       | 0.186          | 0.471                 |             |            |      |
| 88               | 28.88          | 395.3            | 7793      | 2.81           | 7.10                  |             |            |      |
| 89               | 29.00          | 360.9            | 232       | 0.0666         | 0.185                 |             |            |      |
| 90               | 29.18          | 395.3            | 3188      | 1.25           | 3.15                  |             |            |      |
| 91               | 29.44          | 360.9            | 87        | 0.0496         | 0.137                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.78          | 394.3            | 1309      | 0.357          | 0.906                 |             |            |      |
| 93               | 30.15          | 394.3            | 6841      | 2.54           | 6.45                  |             |            |      |
| 94               | 30.41          | 394.3            | 3133      | 1.34           | 3.39                  |             |            |      |
| 95               | 30.70          | 382.2            | 1261      | 0.532          | 1.39                  |             |            |      |
| 96               | 30.96          | 429.8            | 1054      | 0.0610         | 0.142                 |             |            |      |
| 98               | 31.13          | 395.3            | 29        | 0.0114         | 0.0289                |             |            |      |
| 99               | 31.50          | 429.8            | 805       | 0.341          | 0.794                 |             |            |      |
| 100              | 31.74          | 395.3            | 817       | 0.390          | 0.986                 |             |            |      |
| 101              | 32.03          | 429.8            | 193       | 0.143          | 0.334                 |             |            |      |
| 102              | 32.20          | 395.3            | 12628     | 4.05           | 10.2                  |             |            |      |
| 103              | 32.45          | 395.3            | 549       | 0.269          | 0.679                 |             |            |      |
| 104              | 32.74          | 395.3            | 173       | 0.0827         | 0.209                 |             |            |      |
| 105              | 33.12          | 429.8            | 926       | 0.356          | 0.828                 |             |            |      |
| 106              | 34.24          | 395.3            | 4395      | 0.926          | 2.34                  |             |            |      |
| 107              | 34.48          | 395.3            | 1044      | 0.291          | 0.737                 |             |            |      |
| 108              | 35.34          | 429.8            | 290       | 0.0902         | 0.210                 |             |            |      |
| 109              | 35.58          | 429.8            | 6159      | 3.49           | 8.12                  |             |            |      |
| 110              | 36.12          | 429.8            | 6340      | 3.21           | 7.46                  |             |            |      |
| 111              | 37.22          | 395.3            | 30        | 0.00718        | 0.0182                |             |            |      |
| 112              | 38.80          | 429.8            | 1948      | 0.386          | 0.898                 |             |            |      |
| 113              | 39.31          | 464.2            | 405       | 0.257          | 0.553                 |             |            |      |
| 114              | 40.23          | 464.2            | 203       | 0.0692         | 0.149                 |             |            |      |
| 115              | 41.60          | 429.8            | 4871      | 1.15           | 2.66                  |             |            |      |
| 116              | 42.44          | 429.8            | 208       | 0.0740         | 0.172                 |             |            |      |
| 117              | 47.56          | 464.2            | 1503      | 0.406          | 0.874                 |             |            |      |
| 118              | 53.56          | 498.6            | 7         | 0.00269        | 0.00540               |             |            |      |

Total Concentration = 126 ng/mL

Total Nanomoles = 0.447

Average Molecular Weight = 282.6

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.00 minutes

OCN Internal Standard Peak Area = 57399.0

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 22:17:24  
 Lab Sample ID: CCCS0610B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-7

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.68             | 1:1       | 001                  | 0.2539 | 2                          | 5.943             | 8.900           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 4.213             | 6.309           |
| 5                                | 13.41             | 2:2       | 004 010              | 0.2915 | 2-2; 26                    | 2.019             | 2.557           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3100 | 24; 25                     | 0.598             | 0.758           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3167 | 2-3                        | 0.962             | 1.218           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 8.251             | 10.451          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.40             | 3:3       | 019                  | 0.3348 | 26-2                       | 0.215             | 0.236           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.12             | 2:0       | 012 013              | 0.3504 | 34; 3-4                    | 0.085             | 0.107           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.361             | 2.679           |
| 15                               | 16.34             | 3:2       | 017                  | 0.3552 | 24-2                       | 2.212             | 2.428           |
| 16                               | 16.64             | 3:2       | 024 027              | 0.3617 | 236; 26-3                  | 0.164             | 0.180           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3672 | 23-2; 26-4                 | 2.307             | 2.532           |
| 19                               | 17.33             | 3:1 4:4   | 023 034 054          | 0.3767 | 235; 35-2; 26-26           | 0.014             | 0.015           |
| 20                               | 17.50             | 3:1       | 029                  | 0.3804 | 245                        | 0.019             | 0.021           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3835 | 25-3                       | 0.536             | 0.588           |
| 22                               | 17.73             | 3:1       | 025                  | 0.3854 | 24-3                       | 0.279             | 0.307           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.514             | 2.759           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.528             | 2.774           |
| 25                               | 18.33             | 3:1 4:3   | 020 021 033 053      | 0.3985 | 23-3; 234; 34-2; 25-26     | 2.572             | 2.800           |
| 26                               | 18.56             | 3:1 4:3   | 022 051              | 0.4035 | 23-4; 24-26                | 1.731             | 1.891           |
| 27                               | 18.79             | 4:3       | 045                  | 0.4085 | 236-2                      | 0.574             | 0.555           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.07             | 4:3       | 046                  | 0.4146 | 23-26                      | 0.266             | 0.257           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.36             | 4:2       | 052 069 073          | 0.4209 | 25-25; 246-3; 26-35        | 3.227             | 3.123           |
| 32                               | 19.52             | 4:2       | 043 049              | 0.4243 | 235-2; 24-25               | 1.366             | 1.322           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4267 | 345; 24-24                 | 0.465             | 0.450           |
| 34                               | 19.70             | 4:2       | 048 075              | 0.4283 | 245-2; 246-4               | 0.618             | 0.598           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.91             | 3:0       | 035                  | 0.4328 | 34-3                       | 0.100             | 0.110           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4367 | 246-26; 23-25              | 2.638             | 2.553           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3         | 1.860             | 1.930           |
| 39                               | 20.57             | 4:2       | 041 064 071 072      | 0.4472 | 234-2; 236-4; 26-34; 25-35 | 2.254             | 2.181           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.73             | 5:4       | 068 096                         | 0.4507 | 24-35; 236-26   | 0.070             | 0.060           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4528 | 23-23   | 0.630             | 0.609           |
| 43                               | 21.09             | 4:1 5:3   | 057 103                         | 0.4585 | 235-3; 246-25   | 0.060             | 0.057           |
| 44                               | 21.24             | 4:1 5:3   | 058 067 100                     | 0.4617 | 23-35; 245-3; 246-24  | 0.077             | 0.073           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4652 | 235-4   | 0.108             | 0.105           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4689 | 245-4; 235-26; 2345   | 0.841             | 0.814           |
| 47                               | 21.71             | 4:1       | 070                             | 0.4720 | 25-34   | 2.002             | 1.938           |
| 48                               | 21.82             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4743 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.951             | 3.804           |
| 49                               | 22.13             | 4:1 5:3   | 055 091 121                     | 0.4811 | 234-3; 236-24; 246-35                                       | 0.347             | 0.302           |
| 50                               | 22.43             | 4:1       | 056 060                         | 0.4876 | 23-34; 234-4  | 2.085             | 2.018           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 1.315             | 1.138           |
| 52                               | 22.78             | 5:3       | 089                             | 0.4952 | 234-26  | 0.069             | 0.060           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4983 | 235-24; 245-25  | 1.036             | 0.897           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5024 | 34-35; 245-24; 236-35                                       | 0.374             | 0.324           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5085 | 246-34; 236-246   | 0.008             | 0.007           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5107 | 345-3; 235-23; 2356-3; 2346-3                               | 0.092             | 0.079           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 0.375             | 0.325           |
| 58                               | 23.88             | 5:2       | 081 087 117 125 115 145         | 0.5191 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.754             | 0.653           |
| 59                               | 24.03             | 5:2       | 116 085 111                     | 0.5224 | 23456; 234-24; 235-35                                       | 0.338             | 0.292           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5252 | 245-35; 236-236   | 0.416             | 0.326           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5278 | 34-34; 236-34; 235-246                                      | 1.291             | 1.117           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5359 | 234-23  | 0.301             | 0.261           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5422 | 2356-25   | 1.057             | 0.827           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5452 | 345-25; 235-236   | 0.177             | 0.142           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5463 | 2346-25   | 0.310             | 0.243           |
| 67                               | 25.19             | 5:1 6:3   | 107 109 147                     | 0.5476 | 234-35; 235-34; 2356-24                                     | 0.083             | 0.070           |
| 68                               | 25.32             | 5:1       | 123                             | 0.5504 | 345-24  | 0.024             | 0.021           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5520 | 2345-3; 245-34; 2346-24; 236-245                            | 2.197             | 1.840           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5604 | 2345-4; 2356-23; 2345-26                                    | 0.126             | 0.102           |
| 72                               | 25.99             | 5:1 6:3   | 122 131 133 142                 | 0.5650 | 345-23; 2346-23; 235-235; 23456-2                           | 0.011             | 0.009           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5709 | 235-245; 2356-35; 2356-246                                  | 0.182             | 0.143           |
| 74                               | 26.39             | 5:1 6:3   | 105 132 161                     | 0.5737 | 234-34; 234-236; 2346-35                                    | 0.747             | 0.607           |
| 75                               | 26.54             | 6:2       | 153                             | 0.5770 | 245-245   | 1.461             | 1.144           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.07             | 6:2       | 141                             | 0.5885 | 2345-25   | 0.891             | 0.698           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5900 | 2356-236  | 1.041             | 0.744           |
| 79                               | 27.37             | 6:2       | 137                             | 0.5950 | 2345-24   | 0.033             | 0.026           |
| 80                               | 27.50             | 6:2 7:4   | 130 176                         | 0.5978 | 234-235; 2346-236   | 0.162             | 0.127           |
| 82                               | 27.72             | 6:2       | 138 163 164                     | 0.6026 | 234-245; 2356-34; 236-345                                   | 1.250             | 0.979           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6063 | 2346-34; 23456-3; 23456-26                                  | 0.106             | 0.083           |
| 84                               | 28.09             | 6:2       | 126 129                         | 0.6107 | 345-34; 2345-23   | 0.009             | 0.007           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6180 | 23456-4; 2356-235   | 0.768             | 0.549           |
| 87                               | 28.74             | 7:3       | 175 159                         | 0.6248 | 2346-235; 2345-35   | 0.147             | 0.105           |
| 88                               | 28.88             | 7:3       | 182 187                         | 0.6278 | 2345-246; 2356-245  | 2.223             | 1.589           |
| 89                               | 29.00             | 6:2       | 128 162                         | 0.6304 | 234-234; 235-345  | 0.053             | 0.041           |
| 90                               | 29.18             | 7:3       | 183                             | 0.6343 | 2346-245  | 0.987             | 0.705           |
| 91                               | 29.44             | 6:1       | 167                             | 0.6400 | 245-345   | 0.039             | 0.031           |
| 92                               | 29.78             | 7:3       | 185                             | 0.6474 | 23456-25  | 0.283             | 0.203           |
| 93                               | 30.15             | 7:3       | 174 181                         | 0.6554 | 2345-236; 23456-24  | 2.014             | 1.444           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6611 | 2356-234  | 1.060             | 0.759           |
| 95                               | 30.70             | 6:1 7:3   | 156 171                         | 0.6674 | 2345-34; 2346-234   | 0.421             | 0.311           |
| 96                               | 30.96             | 8:4       | 157 202                         | 0.6730 | 234-345; 2356-2356  | 0.048             | 0.032           |
| 98                               | 31.13             | 7:3       | 173                             | 0.6767 | 23456-23  | 0.009             | 0.006           |
| 99                               | 31.50             | 8:4       | 201                             | 0.6848 | 2346-2356   | 0.270             | 0.178           |
| 100                              | 31.74             | 7:2       | 172 204                         | 0.6900 | 2345-235; 23456-246   | 0.309             | 0.221           |
| 101                              | 32.03             | 8:4       | 192 197                         | 0.6963 | 23456-35; 2346-2346   | 0.114             | 0.075           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7000 | 2345-245  | 3.205             | 2.291           |
| 103                              | 32.45             | 7:2       | 193                             | 0.7054 | 2356-345  | 0.213             | 0.152           |
| 104                              | 32.74             | 7:2       | 191                             | 0.7117 | 2346-345  | 0.065             | 0.047           |
| 105                              | 33.12             | 8:4       | 200 169                         | 0.7200 | 23456-236; 345-345  | 0.282             | 0.185           |
| 106                              | 34.24             | 7:2       | 170                             | 0.7443 | 2345-234  | 0.733             | 0.524           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.48             | 7:2       | <b>190</b>           | 0.7496 | 23456-34               | 0.231             | 0.165           |
| 108                              | 35.34             | 8:3       | <b>198</b>           | 0.7683 | 23456-235              | 0.071             | 0.047           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7735 | 2345-2356              | 2.762             | 1.816           |
| 110                              | 36.12             | 8:3       | <b>196 203</b>       | 0.7852 | 2345-2346; 23456-245   | 2.539             | 1.670           |
| 111                              | 37.22             | 7:1       | <b>189</b>           | 0.8091 | 2345-345               | 0.006             | 0.004           |
| 112                              | 38.80             | 8:3       | <b>195</b>           | 0.8435 | 23456-234              | 0.306             | 0.201           |
| 113                              | 39.31             | 9:4       | <b>208</b>           | 0.8546 | 23456-2356             | 0.203             | 0.124           |
| 114                              | 40.23             | 9:4       | <b>207</b>           | 0.8746 | 23456-2346             | 0.055             | 0.033           |
| 115                              | 41.60             | 8:2       | <b>194</b>           | 0.9043 | 2345-2345              | 0.907             | 0.596           |
| 116                              | 42.44             | 8:2       | <b>205</b>           | 0.9226 | 23456-345              | 0.059             | 0.039           |
| 117                              | 47.56             | 9:3       | <b>206</b>           | 1.034  | 23456-2345             | 0.321             | 0.195           |
| 118                              | 53.56             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.002             | 0.001           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 126 ng/mL

Total Nanomoles = 0.447

Average Molecular Weight = 282.6

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

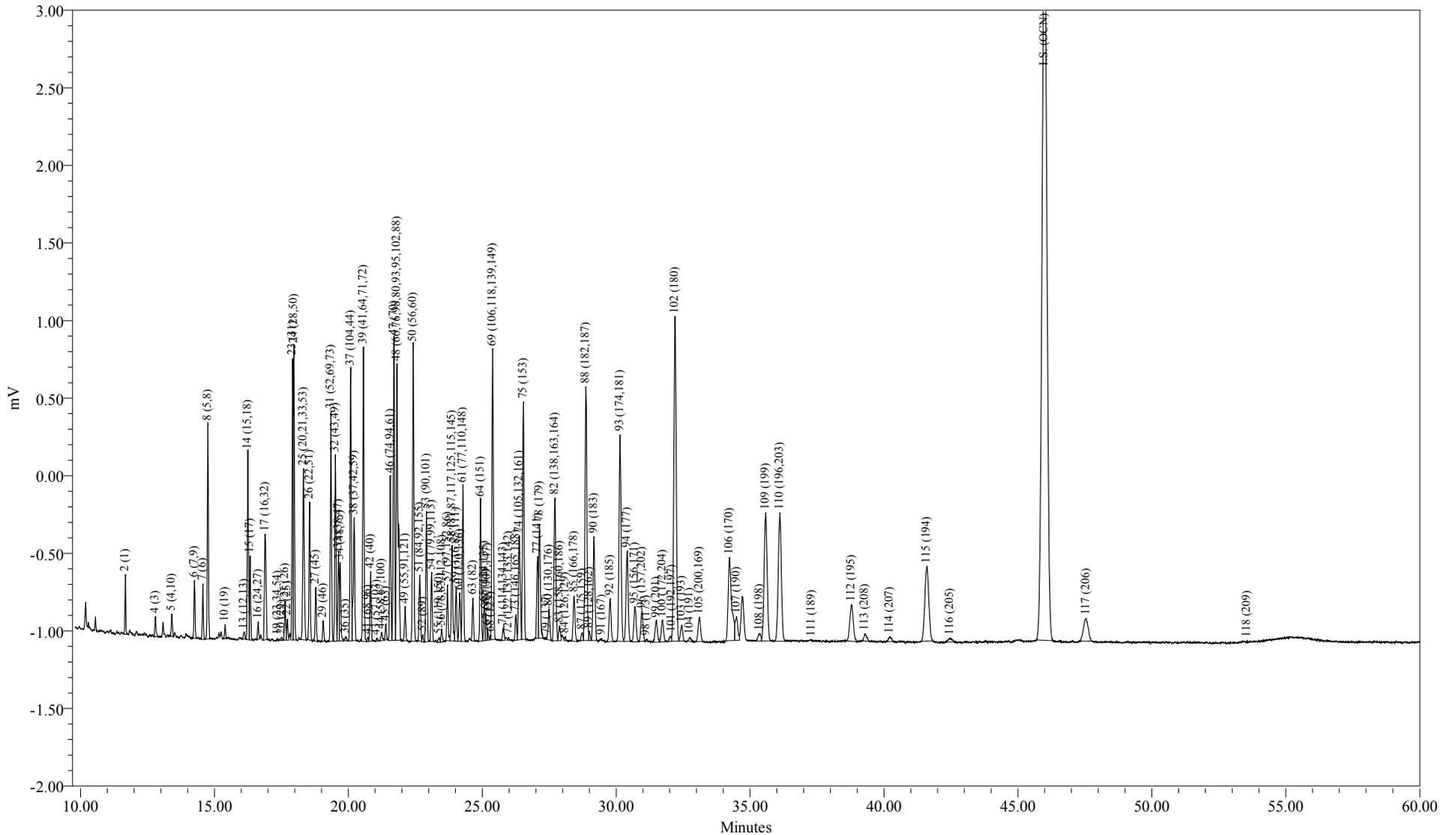
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



Sample Name: CCCS0610C  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/11/2015 12:28:48 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1177-9 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 00:28:48  
 Lab Sample ID: CCCS0610C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-9

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 11.31    | 16.86  |
| Di       | 11.88    | 14.90  |
| Tri      | 17.66    | 19.26  |
| Tetra    | 22.01    | 21.26  |
| Penta    | 8.42     | 7.21   |
| Hexa     | 7.39     | 5.81   |
| Hepta    | 13.36    | 9.51   |
| Octa     | 7.37     | 4.82   |
| Nona     | 0.60     | 0.36   |
| Deca     | 0.01     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.5593            | 36.6     | 30.1  |
| A1242    | 23+24/31+28                        | 6.3280            | 30.7     | 25.2  |
| A1254SED | 61/100                             | 1.6350            | 7.92     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.1260            |          | 24.4  |
| A1260    | 102/180                            | 4.0055            | 19.4     | 15.9  |
| A1268    | 115/194                            | 1.1175            | 5.41     | 4.45  |

Ortho Cl / biphenyl Residue = 1.56  
 Meta + Para Cl / biphenyl Residue = 2.13  
 Total Cl / biphenyl Residue = 3.69

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 00:28:48  
 Lab Sample ID: CCCS0610C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-9

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 710       | 7.56           | 40.1                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 350       | 6.71           | 35.6                  |             |            |      |
| 5                | 13.40          | 223.1            | 404       | 1.99           | 8.91                  |             |            |      |
| 6                | 14.26          | 223.1            | 1032      | 0.746          | 3.34                  |             |            |      |
| 7                | 14.57          | 223.1            | 840       | 1.21           | 5.42                  |             |            |      |
| 8                | 14.76          | 223.1            | 3645      | 10.1           | 45.4                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.39          | 257.5            | 224       | 0.222          | 0.860                 |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.11          | 223.1            | 175       | 0.164          | 0.737                 |             |            |      |
| 14               | 16.25          | 249.0            | 3529      | 2.99           | 12.0                  |             |            |      |
| 15               | 16.33          | 257.5            | 1500      | 2.82           | 11.0                  |             |            |      |
| 16               | 16.63          | 257.5            | 297       | 0.186          | 0.722                 |             |            |      |
| 17               | 16.89          | 257.5            | 2852      | 3.01           | 11.7                  |             |            |      |
| 19               | 17.36          | 267.9            | 38        | 0.0319         | 0.119                 |             |            |      |
| 20               | 17.50          | 257.5            | 60        | 0.0513         | 0.199                 |             |            |      |
| 21               | 17.64          | 257.5            | 728       | 0.633          | 2.46                  |             |            |      |
| 22               | 17.73          | 257.5            | 410       | 0.284          | 1.10                  |             |            |      |
| 23               | 17.92          | 257.5            | 4877      | 3.22           | 12.5                  |             |            |      |
| 24               | 17.97          | 257.5            | 5315      | 3.11           | 12.1                  |             |            |      |
| 25               | 18.32          | 259.5            | 4034      | 3.09           | 11.9                  |             |            |      |
| 26               | 18.55          | 258.7            | 2609      | 2.17           | 8.40                  |             |            |      |
| 27               | 18.78          | 292.0            | 1032      | 0.757          | 2.59                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.06          | 292.0            | 374       | 0.309          | 1.06                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4500      | 4.09           | 14.0                  |             |            |      |
| 32               | 19.52          | 292.0            | 3690      | 1.71           | 5.86                  |             |            |      |
| 33               | 19.63          | 292.0            | 1782      | 0.594          | 2.03                  |             |            |      |
| 34               | 19.69          | 292.0            | 1613      | 0.775          | 2.66                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.89          | 257.5            | 92        | 0.102          | 0.397                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5486      | 3.29           | 11.3                  |             |            |      |
| 38               | 20.22          | 272.4            | 3066      | 2.38           | 8.72                  |             |            |      |
| 39               | 20.56          | 292.0            | 6073      | 2.90           | 9.94                  |             |            |      |
| 41               | 20.73          | 326.4            | 87        | 0.0647         | 0.198                 |             |            |      |
| 42               | 20.83          | 292.0            | 1352      | 0.809          | 2.77                  |             |            |      |
| 43               | 21.05          | 298.9            | 64        | 0.0351         | 0.117                 |             |            |      |
| 44               | 21.24          | 298.9            | 217       | 0.0897         | 0.300                 |             |            |      |
| 45               | 21.40          | 292.0            | 317       | 0.145          | 0.496                 |             |            |      |
| 46               | 21.57          | 292.0            | 3343      | 1.07           | 3.67                  |             |            |      |
| 47               | 21.70          | 292.0            | 6330      | 2.54           | 8.71                  |             |            |      |
| 48               | 21.81          | 293.5            | 8163      | 4.94           | 16.8                  |             |            |      |
| 49               | 22.12          | 324.7            | 721       | 0.418          | 1.29                  |             |            |      |
| 50               | 22.42          | 292.0            | 6416      | 2.66           | 9.10                  |             |            |      |
| 51               | 22.67          | 326.4            | 1516      | 1.61           | 4.94                  |             |            |      |
| 52               | 22.78          | 326.4            | 141       | 0.0844         | 0.259                 |             |            |      |
| 53               | 22.91          | 326.4            | 2762      | 1.30           | 3.99                  |             |            |      |
| 54               | 23.11          | 326.4            | 1429      | 0.450          | 1.38                  |             |            |      |
| 55               | 23.39          | 326.4            | 127       | 0.0289         | 0.0886                |             |            |      |
| 56               | 23.49          | 326.4            | 278       | 0.155          | 0.474                 |             |            |      |
| 57               | 23.70          | 326.4            | 1199      | 0.453          | 1.39                  |             |            |      |
| 58               | 23.87          | 326.4            | 2158      | 0.951          | 2.91                  |             |            |      |
| 59               | 24.02          | 326.4            | 1166      | 0.428          | 1.31                  |             |            |      |
| 60               | 24.16          | 360.9            | 1194      | 0.514          | 1.42                  |             |            |      |
| 61               | 24.28          | 326.4            | 3304      | 1.63           | 5.01                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 882       | 0.368          | 1.13                  |             |            |      |
| 64               | 24.94          | 360.9            | 3008      | 1.30           | 3.60                  |             |            |      |
| 65               | 25.08          | 350.5            | 756       | 0.195          | 0.556                 |             |            |      |
| 66               | 25.13          | 360.9            | 607       | 0.459          | 1.27                  |             |            |      |
| 67               | 25.19          | 336.8            | 178       | 0.0930         | 0.276                 |             |            |      |
| 68               | 25.32          | 326.4            | 66        | 0.0278         | 0.0851                |             |            |      |
| 69               | 25.39          | 337.5            | 7090      | 2.76           | 8.18                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 340       | 0.143          | 0.412                 |             |            |      |
| 72               | 25.97          | 336.8            | 39        | 0.0114         | 0.0337                |             |            |      |
| 73               | 26.26          | 360.9            | 582       | 0.231          | 0.641                 |             |            |      |
| 74               | 26.38          | 347.8            | 3072      | 0.925          | 2.66                  |             |            |      |
| 75               | 26.53          | 360.9            | 5843      | 1.81           | 5.02                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.06          | 360.9            | 1919      | 1.06           | 2.94                  |             |            |      |
| 78               | 27.14          | 395.3            | 3072      | 1.29           | 3.26                  |             |            |      |
| 79               | 27.40          | 360.9            | 39        | 0.0525         | 0.146                 |             |            |      |
| 80               | 27.49          | 360.9            | 857       | 0.194          | 0.537                 |             |            |      |
| 82               | 27.71          | 360.9            | 4546      | 1.55           | 4.30                  |             |            |      |
| 83               | 27.89          | 360.9            | 413       | 0.146          | 0.404                 |             |            |      |
| 84               | 28.09          | 360.9            | 83        | 0.0104         | 0.0288                |             |            |      |
| 85               | 28.42          | 395.3            | 1377      | 0.951          | 2.40                  |             |            |      |
| 87               | 28.73          | 395.3            | 216       | 0.149          | 0.376                 |             |            |      |
| 88               | 28.87          | 395.3            | 7986      | 2.77           | 7.00                  |             |            |      |
| 89               | 29.00          | 360.9            | 213       | 0.0587         | 0.163                 |             |            |      |
| 90               | 29.17          | 395.3            | 3163      | 1.19           | 3.01                  |             |            |      |
| 91               | 29.46          | 360.9            | 35        | 0.0199         | 0.0550                |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.77          | 394.3            | 1424      | 0.373          | 0.947                 |             |            |      |
| 93               | 30.14          | 394.3            | 7053      | 2.52           | 6.39                  |             |            |      |
| 94               | 30.41          | 394.3            | 3140      | 1.29           | 3.27                  |             |            |      |
| 95               | 30.69          | 382.2            | 1322      | 0.536          | 1.40                  |             |            |      |
| 96               | 30.96          | 429.8            | 1064      | 0.0592         | 0.138                 |             |            |      |
| 98               | 31.12          | 395.3            | 73        | 0.0276         | 0.0697                |             |            |      |
| 99               | 31.50          | 429.8            | 867       | 0.354          | 0.823                 |             |            |      |
| 100              | 31.73          | 395.3            | 835       | 0.383          | 0.968                 |             |            |      |
| 101              | 32.08          | 429.8            | 176       | 0.126          | 0.293                 |             |            |      |
| 102              | 32.20          | 395.3            | 13002     | 4.01           | 10.1                  |             |            |      |
| 103              | 32.45          | 395.3            | 570       | 0.268          | 0.678                 |             |            |      |
| 104              | 32.75          | 395.3            | 129       | 0.0591         | 0.149                 |             |            |      |
| 105              | 33.11          | 429.8            | 994       | 0.367          | 0.853                 |             |            |      |
| 106              | 34.23          | 395.3            | 4744      | 0.961          | 2.43                  |             |            |      |
| 107              | 34.49          | 395.3            | 1078      | 0.289          | 0.731                 |             |            |      |
| 108              | 35.35          | 429.8            | 346       | 0.104          | 0.241                 |             |            |      |
| 109              | 35.58          | 429.8            | 6422      | 3.50           | 8.13                  |             |            |      |
| 110              | 36.11          | 429.8            | 6560      | 3.19           | 7.42                  |             |            |      |
| 111              | 37.30          | 395.3            | 8         | 0.00136        | 0.00345               |             |            |      |
| 112              | 38.78          | 429.8            | 2110      | 0.402          | 0.935                 |             |            |      |
| 113              | 39.28          | 464.2            | 351       | 0.213          | 0.459                 |             |            |      |
| 114              | 40.21          | 464.2            | 232       | 0.0759         | 0.163                 |             |            |      |
| 115              | 41.59          | 429.8            | 4944      | 1.12           | 2.60                  |             |            |      |
| 116              | 42.46          | 429.8            | 257       | 0.0880         | 0.205                 |             |            |      |
| 117              | 47.54          | 464.2            | 1793      | 0.465          | 1.00                  |             |            |      |
| 118              | 53.55          | 498.6            | 19        | 0.00752        | 0.0151                |             |            |      |

Total Concentration = 126 ng/mL

Total Nanomoles = 0.449

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 45.99 minutes

OCN Internal Standard Peak Area = 59721.5

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 00:28:48  
 Lab Sample ID: CCCS0610C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1177-9

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2538 | 2                          | 5.991             | 8.930           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 5.321             | 7.931           |
| 5                                | 13.40             | 2:2       | 004 010              | 0.2914 | 2-2; 26                    | 1.575             | 1.985           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3101 | 24; 25                     | 0.591             | 0.745           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3168 | 2-3                        | 0.959             | 1.208           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 8.035             | 10.129          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.39             | 3:3       | 019                  | 0.3346 | 26-2                       | 0.176             | 0.192           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.11             | 2:0       | 012 013              | 0.3503 | 34; 3-4                    | 0.130             | 0.164           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.369             | 2.676           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3551 | 24-2                       | 2.238             | 2.444           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3616 | 236; 26-3                  | 0.147             | 0.161           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3673 | 23-2; 26-4                 | 2.384             | 2.604           |
| 19                               | 17.36             | 3:1 4:4   | 023 034 054          | 0.3775 | 235; 35-2; 26-26           | 0.025             | 0.027           |
| 20                               | 17.50             | 3:1       | 029                  | 0.3805 | 245                        | 0.041             | 0.044           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3836 | 25-3                       | 0.502             | 0.548           |
| 22                               | 17.73             | 3:1       | 025                  | 0.3855 | 24-3                       | 0.225             | 0.246           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.552             | 2.788           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.463             | 2.690           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3983 | 23-3; 234; 34-2; 25-26     | 2.452             | 2.658           |
| 26                               | 18.55             | 3:1 4:3   | 022 051              | 0.4033 | 23-4; 24-26                | 1.722             | 1.872           |
| 27                               | 18.78             | 4:3       | 045                  | 0.4083 | 236-2                      | 0.600             | 0.578           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.06             | 4:3       | 046                  | 0.4144 | 23-26                      | 0.245             | 0.236           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35        | 3.240             | 3.120           |
| 32                               | 19.52             | 4:2       | 043 049              | 0.4244 | 235-2; 24-25               | 1.356             | 1.306           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4268 | 345; 24-24                 | 0.471             | 0.453           |
| 34                               | 19.69             | 4:2       | 048 075              | 0.4281 | 245-2; 246-4               | 0.615             | 0.592           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.89             | 3:0       | 035                  | 0.4325 | 34-3                       | 0.081             | 0.089           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4368 | 246-26; 23-25              | 2.610             | 2.514           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4397 | 34-4; 23-24; 236-3         | 1.883             | 1.945           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4471 | 234-2; 236-4; 26-34; 25-35 | 2.300             | 2.215           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.73             | 5:4       | 068 096                         | 0.4508 | 24-35; 236-26   | 0.051             | 0.044           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4529 | 23-23   | 0.641             | 0.617           |
| 43                               | 21.05             | 4:1 5:3   | 057 103                         | 0.4577 | 235-3; 246-25   | 0.028             | 0.026           |
| 44                               | 21.24             | 4:1 5:3   | 058 067 100                     | 0.4618 | 23-35; 245-3; 246-24  | 0.071             | 0.067           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4653 | 235-4   | 0.115             | 0.111           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4690 | 245-4; 235-26; 2345   | 0.848             | 0.817           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4718 | 25-34   | 2.016             | 1.942           |
| 48                               | 21.81             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4742 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.914             | 3.751           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4810 | 234-3; 236-24; 246-35                                       | 0.331             | 0.287           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4875 | 23-34; 234-4  | 2.106             | 2.029           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4929 | 236-23; 235-25; 246-246                                     | 1.277             | 1.101           |
| 52                               | 22.78             | 5:3       | 089                             | 0.4953 | 234-26  | 0.067             | 0.058           |
| 53                               | 22.91             | 5:2       | 090 101                         | 0.4982 | 235-24; 245-25  | 1.033             | 0.890           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5025 | 34-35; 245-24; 236-35                                       | 0.356             | 0.307           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5086 | 246-34; 236-246   | 0.023             | 0.020           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5108 | 345-3; 235-23; 2356-3; 2346-3                               | 0.123             | 0.106           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5153 | 245-23; 2356-26; 2345-2                                     | 0.359             | 0.310           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5190 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.753             | 0.649           |
| 59                               | 24.02             | 5:2       | 116 085 111                     | 0.5223 | 23456; 234-24; 235-35                                       | 0.339             | 0.292           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5253 | 245-35; 236-236   | 0.407             | 0.318           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5279 | 34-34; 236-34; 235-246                                      | 1.296             | 1.117           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5360 | 234-23  | 0.291             | 0.251           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5423 | 2356-25   | 1.030             | 0.803           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5453 | 345-25; 235-236   | 0.155             | 0.124           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5464 | 2346-25   | 0.364             | 0.283           |
| 67                               | 25.19             | 5:1 6:3   | 107 109 147                     | 0.5477 | 234-35; 235-34; 2356-24                                     | 0.074             | 0.062           |
| 68                               | 25.32             | 5:1       | 123                             | 0.5506 | 345-24  | 0.022             | 0.019           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5521 | 2345-3; 245-34; 2346-24; 236-245                            | 2.189             | 1.824           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5606 | 2345-4; 2356-23; 2345-26                                    | 0.114             | 0.092           |
| 72                               | 25.97             | 5:1 6:3   | 122 131 133 142                 | 0.5647 | 345-23; 2346-23; 235-235; 23456-2                           | 0.009             | 0.008           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5710 | 235-245; 2356-35; 2356-246                                  | 0.183             | 0.143           |
| 74                               | 26.38             | 5:1 6:3   | 105 132 161                     | 0.5736 | 234-34; 234-236; 2346-35                                    | 0.733             | 0.593           |
| 75                               | 26.53             | 6:2       | 153                             | 0.5769 | 245-245   | 1.437             | 1.120           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.06             | 6:2       | 141                             | 0.5884 | 2345-25   | 0.840             | 0.654           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5901 | 2356-236  | 1.021             | 0.726           |
| 79                               | 27.40             | 6:2       | 137                             | 0.5958 | 2345-24   | 0.042             | 0.032           |
| 80                               | 27.49             | 6:2 7:4   | 130 176                         | 0.5977 | 234-235; 2346-236   | 0.154             | 0.120           |
| 82                               | 27.71             | 6:2       | 138 163 164                     | 0.6025 | 234-245; 2356-34; 236-345                                   | 1.229             | 0.958           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6064 | 2346-34; 23456-3; 23456-26                                  | 0.116             | 0.090           |
| 84                               | 28.09             | 6:2       | 126 129                         | 0.6108 | 345-34; 2345-23   | 0.008             | 0.006           |
| 85                               | 28.42             | 7:3       | 166 178                         | 0.6180 | 23456-4; 2356-235   | 0.753             | 0.536           |
| 87                               | 28.73             | 7:3       | 175 159                         | 0.6247 | 2346-235; 2345-35   | 0.118             | 0.084           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6277 | 2345-246; 2356-245  | 2.192             | 1.559           |
| 89                               | 29.00             | 6:2       | 128 162                         | 0.6306 | 234-234; 235-345  | 0.046             | 0.036           |
| 90                               | 29.17             | 7:3       | 183                             | 0.6343 | 2346-245  | 0.942             | 0.670           |
| 91                               | 29.46             | 6:1       | 167                             | 0.6406 | 245-345   | 0.016             | 0.012           |
| 92                               | 29.77             | 7:3       | 185                             | 0.6473 | 23456-25  | 0.296             | 0.211           |
| 93                               | 30.14             | 7:3       | 174 181                         | 0.6554 | 2345-236; 23456-24  | 1.998             | 1.425           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6612 | 2356-234  | 1.021             | 0.729           |
| 95                               | 30.69             | 6:1 7:3   | 156 171                         | 0.6673 | 2345-34; 2346-234   | 0.425             | 0.312           |
| 96                               | 30.96             | 8:4       | 157 202                         | 0.6732 | 234-345; 2356-2356  | 0.047             | 0.031           |
| 98                               | 31.12             | 7:3       | 173                             | 0.6767 | 23456-23  | 0.022             | 0.016           |
| 99                               | 31.50             | 8:4       | 201                             | 0.6849 | 2346-2356   | 0.280             | 0.183           |
| 100                              | 31.73             | 7:2       | 172 204                         | 0.6899 | 2345-235; 23456-246   | 0.303             | 0.216           |
| 101                              | 32.08             | 8:4       | 192 197                         | 0.6975 | 23456-35; 2346-2346   | 0.100             | 0.065           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7002 | 2345-245  | 3.175             | 2.259           |
| 103                              | 32.45             | 7:2       | 193                             | 0.7056 | 2356-345  | 0.212             | 0.151           |
| 104                              | 32.75             | 7:2       | 191                             | 0.7121 | 2346-345  | 0.047             | 0.033           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7199 | 23456-236; 345-345  | 0.291             | 0.190           |
| 106                              | 34.23             | 7:2       | 170                             | 0.7443 | 2345-234  | 0.762             | 0.542           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.49             | 7:2       | <b>190</b>           | 0.7499 | 23456-34               | 0.229             | 0.163           |
| 108                              | 35.35             | 8:3       | <b>198</b>           | 0.7686 | 23456-235              | 0.082             | 0.054           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7736 | 2345-2356              | 2.771             | 1.813           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7852 | 2345-2346; 23456-245   | 2.528             | 1.654           |
| 111                              | 37.30             | 7:1       | <b>189</b>           | 0.8110 | 2345-345               | 0.001             | 0.001           |
| 112                              | 38.78             | 8:3       | <b>195</b>           | 0.8432 | 23456-234              | 0.318             | 0.208           |
| 113                              | 39.28             | 9:4       | <b>208</b>           | 0.8541 | 23456-2356             | 0.169             | 0.102           |
| 114                              | 40.21             | 9:4       | <b>207</b>           | 0.8743 | 23456-2346             | 0.060             | 0.036           |
| 115                              | 41.59             | 8:2       | <b>194</b>           | 0.9043 | 2345-2345              | 0.886             | 0.580           |
| 116                              | 42.46             | 8:2       | <b>205</b>           | 0.9232 | 23456-345              | 0.070             | 0.046           |
| 117                              | 47.54             | 9:3       | <b>206</b>           | 1.034  | 23456-2345             | 0.368             | 0.223           |
| 118                              | 53.55             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.006             | 0.003           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 126 ng/mL

Total Nanomoles = 0.449

Average Molecular Weight = 281.2

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

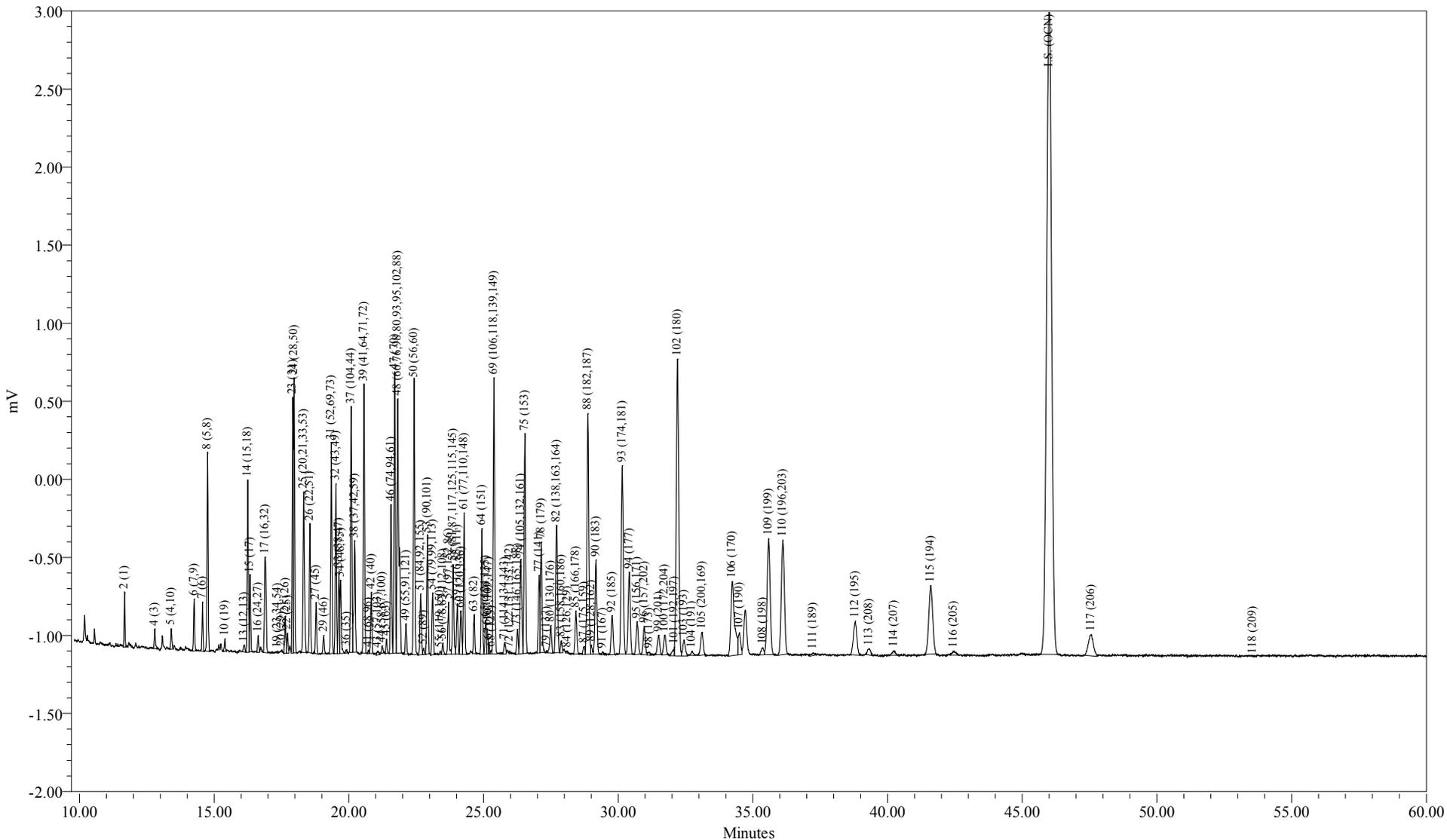
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



Sample Name: CCCS0611B  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/11/2015 8:01:03 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1178-5 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 20:01:03  
 Lab Sample ID: CCCS0611B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 129 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 11.37    | 16.93  |
| Di       | 12.04    | 15.09  |
| Tri      | 17.64    | 19.22  |
| Tetra    | 21.84    | 21.08  |
| Penta    | 8.47     | 7.25   |
| Hexa     | 7.32     | 5.75   |
| Hepta    | 13.38    | 9.53   |
| Octa     | 7.29     | 4.77   |
| Nona     | 0.64     | 0.39   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.9790            | 37.4     | 30.8  |
| A1242    | 23+24/31+28                        | 6.4778            | 30.4     | 25.0  |
| A1254SED | 61/100                             | 1.6556            | 7.76     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.2423            |          | 24.1  |
| A1260    | 102/180                            | 4.0997            | 19.2     | 15.8  |
| A1268    | 115/194                            | 1.1090            | 5.20     | 4.28  |

Ortho Cl / biphenyl Residue = 1.56  
 Meta + Para Cl / biphenyl Residue = 2.12  
 Total Cl / biphenyl Residue = 3.68

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 20:01:03  
 Lab Sample ID: CCCS0611B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-5

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 672       | 7.98           | 42.3                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 312       | 6.67           | 35.4                  |             |            |      |
| 5                | 13.40          | 223.1            | 389       | 2.14           | 9.59                  |             |            |      |
| 6                | 14.26          | 223.1            | 956       | 0.771          | 3.45                  |             |            |      |
| 7                | 14.57          | 223.1            | 772       | 1.24           | 5.56                  |             |            |      |
| 8                | 14.76          | 223.1            | 3362      | 10.4           | 46.7                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.40          | 257.5            | 220       | 0.243          | 0.944                 |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.12          | 223.1            | 170       | 0.178          | 0.799                 |             |            |      |
| 14               | 16.25          | 249.0            | 3216      | 3.04           | 12.2                  |             |            |      |
| 15               | 16.33          | 257.5            | 1364      | 2.86           | 11.1                  |             |            |      |
| 16               | 16.63          | 257.5            | 306       | 0.213          | 0.828                 |             |            |      |
| 17               | 16.90          | 257.5            | 2634      | 3.10           | 12.0                  |             |            |      |
| 19               | 17.35          | 267.9            | 23        | 0.0222         | 0.0830                |             |            |      |
| 20               | 17.51          | 257.5            | 35        | 0.0332         | 0.129                 |             |            |      |
| 21               | 17.64          | 257.5            | 692       | 0.671          | 2.61                  |             |            |      |
| 22               | 17.72          | 257.5            | 395       | 0.306          | 1.19                  |             |            |      |
| 23               | 17.92          | 257.5            | 4464      | 3.29           | 12.8                  |             |            |      |
| 24               | 17.97          | 257.5            | 4893      | 3.19           | 12.4                  |             |            |      |
| 25               | 18.32          | 259.5            | 3657      | 3.13           | 12.1                  |             |            |      |
| 26               | 18.56          | 258.7            | 2366      | 2.20           | 8.49                  |             |            |      |
| 27               | 18.78          | 292.0            | 954       | 0.780          | 2.67                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.07          | 292.0            | 364       | 0.336          | 1.15                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4117      | 4.17           | 14.3                  |             |            |      |
| 32               | 19.52          | 292.0            | 3367      | 1.74           | 5.96                  |             |            |      |
| 33               | 19.63          | 292.0            | 1614      | 0.600          | 2.05                  |             |            |      |
| 34               | 19.69          | 292.0            | 1511      | 0.810          | 2.77                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.92          | 257.5            | 77        | 0.0960         | 0.373                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 4996      | 3.34           | 11.5                  |             |            |      |
| 38               | 20.22          | 272.4            | 2745      | 2.37           | 8.71                  |             |            |      |
| 39               | 20.56          | 292.0            | 5457      | 2.91           | 9.96                  |             |            |      |
| 41               | 20.73          | 326.4            | 58        | 0.0478         | 0.146                 |             |            |      |
| 42               | 20.83          | 292.0            | 1209      | 0.806          | 2.76                  |             |            |      |
| 43               | 21.07          | 298.9            | 115       | 0.0701         | 0.234                 |             |            |      |
| 44               | 21.24          | 298.9            | 148       | 0.0680         | 0.227                 |             |            |      |
| 45               | 21.39          | 292.0            | 280       | 0.143          | 0.489                 |             |            |      |
| 46               | 21.57          | 292.0            | 3040      | 1.09           | 3.72                  |             |            |      |
| 47               | 21.70          | 292.0            | 5742      | 2.57           | 8.81                  |             |            |      |
| 48               | 21.82          | 293.5            | 7439      | 5.02           | 17.1                  |             |            |      |
| 49               | 22.12          | 324.7            | 655       | 0.423          | 1.30                  |             |            |      |
| 50               | 22.42          | 292.0            | 5740      | 2.65           | 9.08                  |             |            |      |
| 51               | 22.67          | 326.4            | 1447      | 1.72           | 5.26                  |             |            |      |
| 52               | 22.78          | 326.4            | 129       | 0.0862         | 0.264                 |             |            |      |
| 53               | 22.92          | 326.4            | 2502      | 1.32           | 4.03                  |             |            |      |
| 54               | 23.11          | 326.4            | 1326      | 0.465          | 1.42                  |             |            |      |
| 55               | 23.39          | 326.4            | 63        | 0.0160         | 0.0491                |             |            |      |
| 56               | 23.49          | 326.4            | 237       | 0.147          | 0.452                 |             |            |      |
| 57               | 23.70          | 326.4            | 1136      | 0.479          | 1.47                  |             |            |      |
| 58               | 23.87          | 326.4            | 1956      | 0.961          | 2.94                  |             |            |      |
| 59               | 24.03          | 326.4            | 1077      | 0.441          | 1.35                  |             |            |      |
| 60               | 24.16          | 360.9            | 1090      | 0.523          | 1.45                  |             |            |      |
| 61               | 24.28          | 326.4            | 3001      | 1.66           | 5.07                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 811       | 0.377          | 1.16                  |             |            |      |
| 64               | 24.94          | 360.9            | 2747      | 1.32           | 3.67                  |             |            |      |
| 65               | 25.08          | 350.5            | 797       | 0.229          | 0.654                 |             |            |      |
| 66               | 25.13          | 360.9            | 466       | 0.392          | 1.09                  |             |            |      |
| 67               | 25.19          | 336.8            | 193       | 0.113          | 0.336                 |             |            |      |
| 68               | 25.30          | 326.4            | 84        | 0.0391         | 0.120                 |             |            |      |
| 69               | 25.39          | 337.5            | 6552      | 2.85           | 8.44                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 307       | 0.144          | 0.415                 |             |            |      |
| 72               | 25.97          | 336.8            | 46        | 0.0149         | 0.0441                |             |            |      |
| 73               | 26.26          | 360.9            | 578       | 0.256          | 0.710                 |             |            |      |
| 74               | 26.38          | 347.8            | 2824      | 0.949          | 2.73                  |             |            |      |
| 75               | 26.54          | 360.9            | 5367      | 1.86           | 5.15                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.06          | 360.9            | 1786      | 1.10           | 3.05                  |             |            |      |
| 78               | 27.14          | 395.3            | 2823      | 1.32           | 3.34                  |             |            |      |
| 79               | 27.34          | 360.9            | 31        | 0.0460         | 0.128                 |             |            |      |
| 80               | 27.50          | 360.9            | 781       | 0.197          | 0.545                 |             |            |      |
| 82               | 27.71          | 360.9            | 4040      | 1.54           | 4.26                  |             |            |      |
| 83               | 27.89          | 360.9            | 301       | 0.119          | 0.329                 |             |            |      |
| 84               | 28.11          | 360.9            | 53        | 0.00740        | 0.0205                |             |            |      |
| 85               | 28.43          | 395.3            | 1220      | 0.940          | 2.38                  |             |            |      |
| 87               | 28.74          | 395.3            | 224       | 0.172          | 0.436                 |             |            |      |
| 88               | 28.87          | 395.3            | 7320      | 2.83           | 7.15                  |             |            |      |
| 89               | 29.00          | 360.9            | 197       | 0.0608         | 0.168                 |             |            |      |
| 90               | 29.18          | 395.3            | 2921      | 1.22           | 3.10                  |             |            |      |
| 91               | 29.42          | 360.9            | 63        | 0.0389         | 0.108                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.77          | 394.3            | 1265      | 0.370          | 0.938                 |             |            |      |
| 93               | 30.15          | 394.3            | 6350      | 2.53           | 6.42                  |             |            |      |
| 94               | 30.41          | 394.3            | 2810      | 1.29           | 3.26                  |             |            |      |
| 95               | 30.70          | 382.2            | 1121      | 0.506          | 1.32                  |             |            |      |
| 96               | 30.97          | 429.8            | 1007      | 0.0625         | 0.145                 |             |            |      |
| 98               | 31.15          | 395.3            | 109       | 0.0457         | 0.116                 |             |            |      |
| 99               | 31.50          | 429.8            | 737       | 0.335          | 0.780                 |             |            |      |
| 100              | 31.72          | 395.3            | 749       | 0.383          | 0.969                 |             |            |      |
| 101              | 32.08          | 429.8            | 255       | 0.204          | 0.474                 |             |            |      |
| 102              | 32.20          | 395.3            | 11932     | 4.10           | 10.4                  |             |            |      |
| 103              | 32.44          | 395.3            | 654       | 0.343          | 0.868                 |             |            |      |
| 104              | 32.73          | 395.3            | 142       | 0.0725         | 0.183                 |             |            |      |
| 105              | 33.11          | 429.8            | 918       | 0.378          | 0.879                 |             |            |      |
| 106              | 34.23          | 395.3            | 4550      | 1.03           | 2.60                  |             |            |      |
| 107              | 34.50          | 395.3            | 841       | 0.252          | 0.637                 |             |            |      |
| 108              | 35.36          | 429.8            | 319       | 0.106          | 0.248                 |             |            |      |
| 109              | 35.58          | 429.8            | 5785      | 3.51           | 8.17                  |             |            |      |
| 110              | 36.11          | 429.8            | 5892      | 3.19           | 7.43                  |             |            |      |
| 111              | 37.23          | 395.3            | 144       | 0.0387         | 0.0979                |             |            |      |
| 112              | 38.80          | 429.8            | 1910      | 0.405          | 0.943                 |             |            |      |
| 113              | 39.32          | 464.2            | 338       | 0.229          | 0.493                 |             |            |      |
| 114              | 40.24          | 464.2            | 229       | 0.0832         | 0.179                 |             |            |      |
| 115              | 41.60          | 429.8            | 4400      | 1.11           | 2.58                  |             |            |      |
| 116              | 42.46          | 429.8            | 228       | 0.0870         | 0.202                 |             |            |      |
| 117              | 47.56          | 464.2            | 1787      | 0.516          | 1.11                  |             |            |      |
| 118              | 53.56          | 498.6            | 10        | 0.00427        | 0.00857               |             |            |      |

Total Concentration = 129 ng/mL

Total Nanomoles = 0.459

Average Molecular Weight = 281.0

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.00 minutes

OCN Internal Standard Peak Area = 53559.7

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 20:01:03  
 Lab Sample ID: CCCS0611B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-5

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2537 | 2                          | 6.192             | 9.220           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 5.178             | 7.711           |
| 5                                | 13.40             | 2:2       | 004 010              | 0.2913 | 2-2; 26                    | 1.661             | 2.092           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3100 | 24; 25                     | 0.598             | 0.753           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3167 | 2-3                        | 0.963             | 1.213           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 8.094             | 10.194          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.40             | 3:3       | 019                  | 0.3348 | 26-2                       | 0.189             | 0.206           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.12             | 2:0       | 012 013              | 0.3504 | 34; 3-4                    | 0.138             | 0.174           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.358             | 2.661           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3550 | 24-2                       | 2.221             | 2.423           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3615 | 236; 26-3                  | 0.166             | 0.181           |
| 17                               | 16.90             | 3:2       | 016 032              | 0.3674 | 23-2; 26-4                 | 2.404             | 2.623           |
| 19                               | 17.35             | 3:1 4:4   | 023 034 054          | 0.3772 | 235; 35-2; 26-26           | 0.017             | 0.018           |
| 20                               | 17.51             | 3:1       | 029                  | 0.3807 | 245                        | 0.026             | 0.028           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3835 | 25-3                       | 0.521             | 0.569           |
| 22                               | 17.72             | 3:1       | 025                  | 0.3852 | 24-3                       | 0.237             | 0.259           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.551             | 2.783           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.476             | 2.702           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3983 | 23-3; 234; 34-2; 25-26     | 2.427             | 2.628           |
| 26                               | 18.56             | 3:1 4:3   | 022 051              | 0.4035 | 23-4; 24-26                | 1.705             | 1.852           |
| 27                               | 18.78             | 4:3       | 045                  | 0.4083 | 236-2                      | 0.605             | 0.583           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.07             | 4:3       | 046                  | 0.4146 | 23-26                      | 0.260             | 0.251           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35        | 3.236             | 3.114           |
| 32                               | 19.52             | 4:2       | 043 049              | 0.4243 | 235-2; 24-25               | 1.351             | 1.300           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4267 | 345; 24-24                 | 0.465             | 0.448           |
| 34                               | 19.69             | 4:2       | 048 075              | 0.4280 | 245-2; 246-4               | 0.629             | 0.605           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.92             | 3:0       | 035                  | 0.4330 | 34-3                       | 0.074             | 0.081           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4367 | 246-26; 23-25              | 2.595             | 2.497           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3         | 1.840             | 1.899           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4470 | 234-2; 236-4; 26-34; 25-35 | 2.257             | 2.172           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.73             | 5:4       | 068 096                         | 0.4507 | 24-35; 236-26   | 0.037             | 0.032           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4528 | 23-23   | 0.625             | 0.602           |
| 43                               | 21.07             | 4:1 5:3   | 057 103                         | 0.4580 | 235-3; 246-25   | 0.054             | 0.051           |
| 44                               | 21.24             | 4:1 5:3   | 058 067 100                     | 0.4617 | 23-35; 245-3; 246-24  | 0.053             | 0.050           |
| 45                               | 21.39             | 4:1       | 063                             | 0.4650 | 235-4   | 0.111             | 0.107           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4689 | 245-4; 235-26; 2345   | 0.843             | 0.811           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4717 | 25-34   | 1.997             | 1.922           |
| 48                               | 21.82             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4743 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.895             | 3.729           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4809 | 234-3; 236-24; 246-35                                       | 0.328             | 0.284           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4874 | 23-34; 234-4  | 2.057             | 1.980           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 1.332             | 1.147           |
| 52                               | 22.78             | 5:3       | 089                             | 0.4952 | 234-26  | 0.067             | 0.058           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4983 | 235-24; 245-25  | 1.021             | 0.879           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5024 | 34-35; 245-24; 236-35                                       | 0.361             | 0.311           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5085 | 246-34; 236-246   | 0.012             | 0.011           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5107 | 345-3; 235-23; 2356-3; 2346-3                               | 0.114             | 0.098           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 0.372             | 0.320           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5189 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.746             | 0.642           |
| 59                               | 24.03             | 5:2       | 116 085 111                     | 0.5224 | 23456; 234-24; 235-35                                       | 0.342             | 0.295           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5252 | 245-35; 236-236   | 0.406             | 0.316           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5278 | 34-34; 236-34; 235-246                                      | 1.285             | 1.106           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5359 | 234-23  | 0.293             | 0.252           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5422 | 2356-25   | 1.027             | 0.800           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5452 | 345-25; 235-236   | 0.178             | 0.143           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5463 | 2346-25   | 0.305             | 0.237           |
| 67                               | 25.19             | 5:1 6:3   | 107 109 147                     | 0.5476 | 234-35; 235-34; 2356-24                                     | 0.088             | 0.073           |
| 68                               | 25.30             | 5:1       | 123                             | 0.5500 | 345-24  | 0.030             | 0.026           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5520 | 2345-3; 245-34; 2346-24; 236-245                            | 2.210             | 1.840           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5604 | 2345-4; 2356-23; 2345-26                                    | 0.112             | 0.090           |
| 72                               | 25.97             | 5:1 6:3   | 122 131 133 142                 | 0.5646 | 345-23; 2346-23; 235-235; 23456-2                           | 0.012             | 0.010           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5709 | 235-245; 2356-35; 2356-246                                  | 0.199             | 0.155           |
| 74                               | 26.38             | 5:1 6:3   | 105 132 161                     | 0.5735 | 234-34; 234-236; 2346-35                                    | 0.736             | 0.595           |
| 75                               | 26.54             | 6:2       | 153                             | 0.5770 | 245-245   | 1.442             | 1.123           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.06             | 6:2       | 141                             | 0.5883 | 2345-25   | 0.853             | 0.664           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5900 | 2356-236  | 1.024             | 0.728           |
| 79                               | 27.34             | 6:2       | 137                             | 0.5943 | 2345-24   | 0.036             | 0.028           |
| 80                               | 27.50             | 6:2 7:4   | 130 176                         | 0.5978 | 234-235; 2346-236   | 0.153             | 0.119           |
| 82                               | 27.71             | 6:2       | 138 163 164                     | 0.6024 | 234-245; 2356-34; 236-345                                   | 1.192             | 0.928           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6063 | 2346-34; 23456-3; 23456-26                                  | 0.092             | 0.072           |
| 84                               | 28.11             | 6:2       | 126 129                         | 0.6111 | 345-34; 2345-23   | 0.006             | 0.004           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6180 | 23456-4; 2356-235   | 0.729             | 0.518           |
| 87                               | 28.74             | 7:3       | 175 159                         | 0.6248 | 2346-235; 2345-35   | 0.134             | 0.095           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6276 | 2345-246; 2356-245  | 2.194             | 1.559           |
| 89                               | 29.00             | 6:2       | 128 162                         | 0.6304 | 234-234; 235-345  | 0.047             | 0.037           |
| 90                               | 29.18             | 7:3       | 183                             | 0.6343 | 2346-245  | 0.950             | 0.675           |
| 91                               | 29.42             | 6:1       | 167                             | 0.6396 | 245-345   | 0.030             | 0.023           |
| 92                               | 29.77             | 7:3       | 185                             | 0.6472 | 23456-25  | 0.287             | 0.205           |
| 93                               | 30.15             | 7:3       | 174 181                         | 0.6554 | 2345-236; 23456-24  | 1.964             | 1.400           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6611 | 2356-234  | 0.998             | 0.711           |
| 95                               | 30.70             | 6:1 7:3   | 156 171                         | 0.6674 | 2345-34; 2346-234   | 0.393             | 0.289           |
| 96                               | 30.97             | 8:4       | 157 202                         | 0.6733 | 234-345; 2356-2356  | 0.049             | 0.032           |
| 98                               | 31.15             | 7:3       | 173                             | 0.6772 | 23456-23  | 0.035             | 0.025           |
| 99                               | 31.50             | 8:4       | 201                             | 0.6848 | 2346-2356   | 0.260             | 0.170           |
| 100                              | 31.72             | 7:2       | 172 204                         | 0.6896 | 2345-235; 23456-246   | 0.297             | 0.211           |
| 101                              | 32.08             | 8:4       | 192 197                         | 0.6974 | 23456-35; 2346-2346   | 0.158             | 0.103           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7000 | 2345-245  | 3.181             | 2.262           |
| 103                              | 32.44             | 7:2       | 193                             | 0.7052 | 2356-345  | 0.266             | 0.189           |
| 104                              | 32.73             | 7:2       | 191                             | 0.7115 | 2346-345  | 0.056             | 0.040           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7198 | 23456-236; 345-345  | 0.293             | 0.192           |
| 106                              | 34.23             | 7:2       | 170                             | 0.7441 | 2345-234  | 0.798             | 0.567           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.50             | 7:2       | <b>190</b>           | 0.7500 | 23456-34               | 0.195             | 0.139           |
| 108                              | 35.36             | 8:3       | <b>198</b>           | 0.7687 | 23456-235              | 0.083             | 0.054           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7735 | 2345-2356              | 2.725             | 1.782           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7850 | 2345-2346; 23456-245   | 2.479             | 1.621           |
| 111                              | 37.23             | 7:1       | <b>189</b>           | 0.8093 | 2345-345               | 0.030             | 0.021           |
| 112                              | 38.80             | 8:3       | <b>195</b>           | 0.8435 | 23456-234              | 0.315             | 0.206           |
| 113                              | 39.32             | 9:4       | <b>208</b>           | 0.8548 | 23456-2356             | 0.178             | 0.108           |
| 114                              | 40.24             | 9:4       | <b>207</b>           | 0.8748 | 23456-2346             | 0.065             | 0.039           |
| 115                              | 41.60             | 8:2       | <b>194</b>           | 0.9043 | 2345-2345              | 0.861             | 0.563           |
| 116                              | 42.46             | 8:2       | <b>205</b>           | 0.9230 | 23456-345              | 0.068             | 0.044           |
| 117                              | 47.56             | 9:3       | <b>206</b>           | 1.034  | 23456-2345             | 0.401             | 0.242           |
| 118                              | 53.56             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.003             | 0.002           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 129 ng/mL

Total Nanomoles = 0.459

Average Molecular Weight = 281.0

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 22:21:36  
 Lab Sample ID: CCCS0611C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-7

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 127 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 11.39    | 16.96  |
| Di       | 11.85    | 14.85  |
| Tri      | 17.65    | 19.24  |
| Tetra    | 22.08    | 21.31  |
| Penta    | 8.43     | 7.22   |
| Hexa     | 7.44     | 5.85   |
| Hepta    | 13.20    | 9.40   |
| Octa     | 7.32     | 4.79   |
| Nona     | 0.65     | 0.39   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.8213            | 37.3     | 30.6  |
| A1242    | 23+24/31+28                        | 6.3757            | 30.4     | 25.0  |
| A1254SED | 61/100                             | 1.6338            | 7.79     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.1721            |          | 24.2  |
| A1260    | 102/180                            | 4.0163            | 19.1     | 15.7  |
| A1268    | 115/194                            | 1.1366            | 5.42     | 4.45  |

Ortho Cl / biphenyl Residue = 1.56

Meta + Para Cl / biphenyl Residue = 2.12

Total Cl / biphenyl Residue = 3.68

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 22:21:36  
 Lab Sample ID: CCCS0611C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-7

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 719       | 7.82           | 41.4                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 336       | 6.59           | 34.9                  |             |            |      |
| 5                | 13.41          | 223.1            | 402       | 2.02           | 9.05                  |             |            |      |
| 6                | 14.26          | 223.1            | 1077      | 0.795          | 3.56                  |             |            |      |
| 7                | 14.57          | 223.1            | 826       | 1.21           | 5.44                  |             |            |      |
| 8                | 14.76          | 223.1            | 3546      | 10.1           | 45.1                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.40          | 257.5            | 223       | 0.225          | 0.875                 |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.11          | 223.1            | 155       | 0.148          | 0.662                 |             |            |      |
| 14               | 16.25          | 249.0            | 3523      | 3.05           | 12.2                  |             |            |      |
| 15               | 16.33          | 257.5            | 1446      | 2.78           | 10.8                  |             |            |      |
| 16               | 16.63          | 257.5            | 334       | 0.213          | 0.829                 |             |            |      |
| 17               | 16.89          | 257.5            | 2855      | 3.07           | 11.9                  |             |            |      |
| 19               | 17.32          | 267.9            | 25        | 0.0219         | 0.0819                |             |            |      |
| 20               | 17.49          | 257.5            | 41        | 0.0358         | 0.139                 |             |            |      |
| 21               | 17.64          | 257.5            | 739       | 0.656          | 2.55                  |             |            |      |
| 22               | 17.72          | 257.5            | 408       | 0.289          | 1.12                  |             |            |      |
| 23               | 17.92          | 257.5            | 4660      | 3.14           | 12.2                  |             |            |      |
| 24               | 17.97          | 257.5            | 5418      | 3.24           | 12.6                  |             |            |      |
| 25               | 18.32          | 259.5            | 3963      | 3.10           | 12.0                  |             |            |      |
| 26               | 18.56          | 258.7            | 2528      | 2.15           | 8.31                  |             |            |      |
| 27               | 18.79          | 292.0            | 1009      | 0.755          | 2.59                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.06          | 292.0            | 407       | 0.343          | 1.17                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4446      | 4.12           | 14.1                  |             |            |      |
| 32               | 19.52          | 292.0            | 3656      | 1.73           | 5.93                  |             |            |      |
| 33               | 19.63          | 292.0            | 1772      | 0.603          | 2.06                  |             |            |      |
| 34               | 19.69          | 292.0            | 1574      | 0.773          | 2.65                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.91          | 257.5            | 39        | 0.0449         | 0.174                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5443      | 3.34           | 11.4                  |             |            |      |
| 38               | 20.22          | 272.4            | 2951      | 2.33           | 8.57                  |             |            |      |
| 39               | 20.56          | 292.0            | 5941      | 2.90           | 9.92                  |             |            |      |
| 41               | 20.72          | 326.4            | 79        | 0.0596         | 0.183                 |             |            |      |
| 42               | 20.83          | 292.0            | 1294      | 0.789          | 2.70                  |             |            |      |
| 43               | 21.07          | 298.9            | 94        | 0.0526         | 0.176                 |             |            |      |
| 44               | 21.25          | 298.9            | 213       | 0.0899         | 0.301                 |             |            |      |
| 45               | 21.40          | 292.0            | 296       | 0.138          | 0.474                 |             |            |      |
| 46               | 21.57          | 292.0            | 3301      | 1.08           | 3.70                  |             |            |      |
| 47               | 21.70          | 292.0            | 6249      | 2.56           | 8.78                  |             |            |      |
| 48               | 21.82          | 293.5            | 8079      | 4.99           | 17.0                  |             |            |      |
| 49               | 22.12          | 324.7            | 686       | 0.406          | 1.25                  |             |            |      |
| 50               | 22.42          | 292.0            | 6277      | 2.65           | 9.09                  |             |            |      |
| 51               | 22.67          | 326.4            | 1533      | 1.66           | 5.10                  |             |            |      |
| 52               | 22.77          | 326.4            | 125       | 0.0760         | 0.233                 |             |            |      |
| 53               | 22.92          | 326.4            | 2701      | 1.30           | 3.98                  |             |            |      |
| 54               | 23.11          | 326.4            | 1399      | 0.449          | 1.38                  |             |            |      |
| 55               | 23.39          | 326.4            | 83        | 0.0192         | 0.0589                |             |            |      |
| 56               | 23.49          | 326.4            | 268       | 0.153          | 0.467                 |             |            |      |
| 57               | 23.70          | 326.4            | 1212      | 0.468          | 1.43                  |             |            |      |
| 58               | 23.87          | 326.4            | 2120      | 0.953          | 2.92                  |             |            |      |
| 59               | 24.02          | 326.4            | 1166      | 0.437          | 1.34                  |             |            |      |
| 60               | 24.16          | 360.9            | 1184      | 0.521          | 1.44                  |             |            |      |
| 61               | 24.28          | 326.4            | 3235      | 1.63           | 5.01                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 883       | 0.376          | 1.15                  |             |            |      |
| 64               | 24.94          | 360.9            | 2925      | 1.29           | 3.58                  |             |            |      |
| 65               | 25.08          | 350.5            | 789       | 0.208          | 0.593                 |             |            |      |
| 66               | 25.13          | 360.9            | 580       | 0.448          | 1.24                  |             |            |      |
| 67               | 25.20          | 336.8            | 120       | 0.0637         | 0.189                 |             |            |      |
| 68               | 25.32          | 326.4            | 75        | 0.0320         | 0.0981                |             |            |      |
| 69               | 25.39          | 337.5            | 6983      | 2.78           | 8.23                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.79          | 347.8            | 297       | 0.128          | 0.368                 |             |            |      |
| 72               | 25.98          | 336.8            | 45        | 0.0134         | 0.0397                |             |            |      |
| 73               | 26.26          | 360.9            | 584       | 0.237          | 0.657                 |             |            |      |
| 74               | 26.38          | 347.8            | 3044      | 0.936          | 2.69                  |             |            |      |
| 75               | 26.53          | 360.9            | 5811      | 1.84           | 5.10                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.07          | 360.9            | 1950      | 1.10           | 3.04                  |             |            |      |
| 78               | 27.14          | 395.3            | 3059      | 1.31           | 3.31                  |             |            |      |
| 79               | 27.36          | 360.9            | 50        | 0.0678         | 0.188                 |             |            |      |
| 80               | 27.50          | 360.9            | 871       | 0.201          | 0.557                 |             |            |      |
| 82               | 27.72          | 360.9            | 4461      | 1.55           | 4.30                  |             |            |      |
| 83               | 27.89          | 360.9            | 381       | 0.138          | 0.381                 |             |            |      |
| 84               | 28.08          | 360.9            | 75        | 0.00955        | 0.0264                |             |            |      |
| 85               | 28.43          | 395.3            | 1265      | 0.891          | 2.25                  |             |            |      |
| 87               | 28.74          | 395.3            | 207       | 0.146          | 0.368                 |             |            |      |
| 88               | 28.87          | 395.3            | 7787      | 2.75           | 6.96                  |             |            |      |
| 89               | 28.99          | 360.9            | 201       | 0.0566         | 0.157                 |             |            |      |
| 90               | 29.18          | 395.3            | 3065      | 1.18           | 2.97                  |             |            |      |
| 91               | 29.44          | 360.9            | 89        | 0.0501         | 0.139                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.77          | 394.3            | 1344      | 0.360          | 0.912                 |             |            |      |
| 93               | 30.15          | 394.3            | 6885      | 2.51           | 6.37                  |             |            |      |
| 94               | 30.41          | 394.3            | 2970      | 1.24           | 3.16                  |             |            |      |
| 95               | 30.70          | 382.2            | 1198      | 0.495          | 1.30                  |             |            |      |
| 96               | 30.96          | 429.8            | 1114      | 0.0633         | 0.147                 |             |            |      |
| 98               | 31.13          | 395.3            | 106       | 0.0407         | 0.103                 |             |            |      |
| 99               | 31.51          | 429.8            | 767       | 0.319          | 0.743                 |             |            |      |
| 100              | 31.73          | 395.3            | 823       | 0.385          | 0.975                 |             |            |      |
| 101              | 32.03          | 429.8            | 133       | 0.0969         | 0.225                 |             |            |      |
| 102              | 32.20          | 395.3            | 12771     | 4.02           | 10.2                  |             |            |      |
| 103              | 32.44          | 395.3            | 553       | 0.265          | 0.671                 |             |            |      |
| 104              | 32.73          | 395.3            | 159       | 0.0748         | 0.189                 |             |            |      |
| 105              | 33.11          | 429.8            | 1011      | 0.381          | 0.886                 |             |            |      |
| 106              | 34.24          | 395.3            | 4720      | 0.976          | 2.47                  |             |            |      |
| 107              | 34.49          | 395.3            | 934       | 0.256          | 0.647                 |             |            |      |
| 108              | 35.38          | 429.8            | 309       | 0.0944         | 0.220                 |             |            |      |
| 109              | 35.58          | 429.8            | 6359      | 3.53           | 8.22                  |             |            |      |
| 110              | 36.11          | 429.8            | 6346      | 3.15           | 7.33                  |             |            |      |
| 111              | 37.27          | 395.3            | 7         | 0.00136        | 0.00343               |             |            |      |
| 112              | 38.80          | 429.8            | 2099      | 0.408          | 0.949                 |             |            |      |
| 113              | 39.31          | 464.2            | 392       | 0.244          | 0.525                 |             |            |      |
| 114              | 40.24          | 464.2            | 280       | 0.0931         | 0.201                 |             |            |      |
| 115              | 41.60          | 429.8            | 4927      | 1.14           | 2.64                  |             |            |      |
| 116              | 42.46          | 429.8            | 230       | 0.0804         | 0.187                 |             |            |      |
| 117              | 47.55          | 464.2            | 1813      | 0.480          | 1.03                  |             |            |      |
| 118              | 53.54          | 498.6            | 7         | 0.00265        | 0.00532               |             |            |      |

Total Concentration = 127 ng/mL

Total Nanomoles = 0.450

Average Molecular Weight = 281.1

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 45.99 minutes

OCN Internal Standard Peak Area = 58503.4

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/11/2015 22:21:36  
 Lab Sample ID: CCCS0611C  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1178-7

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2538 | 2                          | 6.180             | 9.205           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 5.207             | 7.756           |
| 5                                | 13.41             | 2:2       | 004 010              | 0.2916 | 2-2; 26                    | 1.595             | 2.010           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3101 | 24; 25                     | 0.628             | 0.791           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3168 | 2-3                        | 0.960             | 1.209           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 7.953             | 10.020          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.40             | 3:3       | 019                  | 0.3349 | 26-2                       | 0.178             | 0.194           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.11             | 2:0       | 012 013              | 0.3503 | 34; 3-4                    | 0.117             | 0.147           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.408             | 2.718           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3551 | 24-2                       | 2.195             | 2.396           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3616 | 236; 26-3                  | 0.169             | 0.184           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3673 | 23-2; 26-4                 | 2.429             | 2.651           |
| 19                               | 17.32             | 3:1 4:4   | 023 034 054          | 0.3766 | 235; 35-2; 26-26           | 0.017             | 0.018           |
| 20                               | 17.49             | 3:1       | 029                  | 0.3803 | 245                        | 0.028             | 0.031           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3836 | 25-3                       | 0.518             | 0.566           |
| 22                               | 17.72             | 3:1       | 025                  | 0.3853 | 24-3                       | 0.229             | 0.250           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.481             | 2.708           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.557             | 2.791           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3983 | 23-3; 234; 34-2; 25-26     | 2.451             | 2.655           |
| 26                               | 18.56             | 3:1 4:3   | 022 051              | 0.4036 | 23-4; 24-26                | 1.698             | 1.845           |
| 27                               | 18.79             | 4:3       | 045                  | 0.4086 | 236-2                      | 0.597             | 0.574           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.06             | 4:3       | 046                  | 0.4144 | 23-26                      | 0.271             | 0.261           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35        | 3.258             | 3.136           |
| 32                               | 19.52             | 4:2       | 043 049              | 0.4244 | 235-2; 24-25               | 1.367             | 1.316           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4268 | 345; 24-24                 | 0.476             | 0.458           |
| 34                               | 19.69             | 4:2       | 048 075              | 0.4281 | 245-2; 246-4               | 0.611             | 0.588           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.91             | 3:0       | 035                  | 0.4329 | 34-3                       | 0.035             | 0.039           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4368 | 246-26; 23-25              | 2.635             | 2.537           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4397 | 34-4; 23-24; 236-3         | 1.845             | 1.904           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4471 | 234-2; 236-4; 26-34; 25-35 | 2.290             | 2.204           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.72             | 5:4       | 068 096                         | 0.4505 | 24-35; 236-26   | 0.047             | 0.041           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4529 | 23-23   | 0.624             | 0.600           |
| 43                               | 21.07             | 4:1 5:3   | 057 103                         | 0.4581 | 235-3; 246-25   | 0.042             | 0.039           |
| 44                               | 21.25             | 4:1 5:3   | 058 067 100                     | 0.4621 | 23-35; 245-3; 246-24  | 0.071             | 0.067           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4653 | 235-4   | 0.109             | 0.105           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4690 | 245-4; 235-26; 2345   | 0.853             | 0.821           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4718 | 25-34   | 2.026             | 1.950           |
| 48                               | 21.82             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4745 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.943             | 3.776           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4810 | 234-3; 236-24; 246-35                                       | 0.321             | 0.278           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4875 | 23-34; 234-4  | 2.097             | 2.018           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4929 | 236-23; 235-25; 246-246                                     | 1.315             | 1.132           |
| 52                               | 22.77             | 5:3       | 089                             | 0.4951 | 234-26  | 0.060             | 0.052           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4984 | 235-24; 245-25  | 1.027             | 0.885           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5025 | 34-35; 245-24; 236-35                                       | 0.355             | 0.306           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5086 | 246-34; 236-246   | 0.015             | 0.013           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5108 | 345-3; 235-23; 2356-3; 2346-3                               | 0.120             | 0.104           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5153 | 245-23; 2356-26; 2345-2                                     | 0.370             | 0.318           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5190 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.753             | 0.649           |
| 59                               | 24.02             | 5:2       | 116 085 111                     | 0.5223 | 23456; 234-24; 235-35                                       | 0.345             | 0.297           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5253 | 245-35; 236-236   | 0.412             | 0.321           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5279 | 34-34; 236-34; 235-246                                      | 1.291             | 1.112           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5360 | 234-23  | 0.297             | 0.256           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5423 | 2356-25   | 1.020             | 0.794           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5453 | 345-25; 235-236   | 0.164             | 0.132           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5464 | 2346-25   | 0.354             | 0.275           |
| 67                               | 25.20             | 5:1 6:3   | 107 109 147                     | 0.5479 | 234-35; 235-34; 2356-24                                     | 0.050             | 0.042           |
| 68                               | 25.32             | 5:1       | 123                             | 0.5506 | 345-24  | 0.025             | 0.022           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5521 | 2345-3; 245-34; 2346-24; 236-245                            | 2.194             | 1.827           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.79             | 5:1 6:3   | 114 134 143                     | 0.5608 | 2345-4; 2356-23; 2345-26                                    | 0.101             | 0.082           |
| 72                               | 25.98             | 5:1 6:3   | 122 131 133 142                 | 0.5649 | 345-23; 2346-23; 235-235; 23456-2                           | 0.011             | 0.009           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5710 | 235-245; 2356-35; 2356-246                                  | 0.187             | 0.146           |
| 74                               | 26.38             | 5:1 6:3   | 105 132 161                     | 0.5736 | 234-34; 234-236; 2346-35                                    | 0.740             | 0.598           |
| 75                               | 26.53             | 6:2       | 153                             | 0.5769 | 245-245   | 1.455             | 1.133           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.07             | 6:2       | 141                             | 0.5886 | 2345-25   | 0.868             | 0.676           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5901 | 2356-236  | 1.034             | 0.735           |
| 79                               | 27.36             | 6:2       | 137                             | 0.5949 | 2345-24   | 0.054             | 0.042           |
| 80                               | 27.50             | 6:2 7:4   | 130 176                         | 0.5980 | 234-235; 2346-236   | 0.159             | 0.124           |
| 82                               | 27.72             | 6:2       | 138 163 164                     | 0.6027 | 234-245; 2356-34; 236-345                                   | 1.227             | 0.956           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6064 | 2346-34; 23456-3; 23456-26                                  | 0.109             | 0.085           |
| 84                               | 28.08             | 6:2       | 126 129                         | 0.6106 | 345-34; 2345-23   | 0.008             | 0.006           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6182 | 23456-4; 2356-235   | 0.704             | 0.501           |
| 87                               | 28.74             | 7:3       | 175 159                         | 0.6249 | 2346-235; 2345-35   | 0.115             | 0.082           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6277 | 2345-246; 2356-245  | 2.174             | 1.546           |
| 89                               | 28.99             | 6:2       | 128 162                         | 0.6304 | 234-234; 235-345  | 0.045             | 0.035           |
| 90                               | 29.18             | 7:3       | 183                             | 0.6345 | 2346-245  | 0.929             | 0.660           |
| 91                               | 29.44             | 6:1       | 167                             | 0.6401 | 245-345   | 0.040             | 0.031           |
| 92                               | 29.77             | 7:3       | 185                             | 0.6473 | 23456-25  | 0.284             | 0.203           |
| 93                               | 30.15             | 7:3       | 174 181                         | 0.6556 | 2345-236; 23456-24  | 1.985             | 1.415           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6612 | 2356-234  | 0.983             | 0.701           |
| 95                               | 30.70             | 6:1 7:3   | 156 171                         | 0.6675 | 2345-34; 2346-234   | 0.391             | 0.288           |
| 96                               | 30.96             | 8:4       | 157 202                         | 0.6732 | 234-345; 2356-2356  | 0.050             | 0.033           |
| 98                               | 31.13             | 7:3       | 173                             | 0.6769 | 23456-23  | 0.032             | 0.023           |
| 99                               | 31.51             | 8:4       | 201                             | 0.6851 | 2346-2356   | 0.252             | 0.165           |
| 100                              | 31.73             | 7:2       | 172 204                         | 0.6899 | 2345-235; 23456-246   | 0.304             | 0.216           |
| 101                              | 32.03             | 8:4       | 192 197                         | 0.6965 | 23456-35; 2346-2346   | 0.077             | 0.050           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7002 | 2345-245  | 3.173             | 2.256           |
| 103                              | 32.44             | 7:2       | 193                             | 0.7054 | 2356-345  | 0.210             | 0.149           |
| 104                              | 32.73             | 7:2       | 191                             | 0.7117 | 2346-345  | 0.059             | 0.042           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7199 | 23456-236; 345-345  | 0.301             | 0.197           |
| 106                              | 34.24             | 7:2       | 170                             | 0.7445 | 2345-234  | 0.771             | 0.548           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.49             | 7:2       | <b>190</b>           | 0.7499 | 23456-34               | 0.202             | 0.144           |
| 108                              | 35.38             | 8:3       | <b>198</b>           | 0.7693 | 23456-235              | 0.075             | 0.049           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7736 | 2345-2356              | 2.792             | 1.826           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7852 | 2345-2346; 23456-245   | 2.489             | 1.627           |
| 111                              | 37.27             | 7:1       | <b>189</b>           | 0.8104 | 2345-345               | 0.001             | 0.001           |
| 112                              | 38.80             | 8:3       | <b>195</b>           | 0.8437 | 23456-234              | 0.322             | 0.211           |
| 113                              | 39.31             | 9:4       | <b>208</b>           | 0.8548 | 23456-2356             | 0.193             | 0.117           |
| 114                              | 40.24             | 9:4       | <b>207</b>           | 0.8750 | 23456-2346             | 0.074             | 0.045           |
| 115                              | 41.60             | 8:2       | <b>194</b>           | 0.9045 | 2345-2345              | 0.898             | 0.587           |
| 116                              | 42.46             | 8:2       | <b>205</b>           | 0.9232 | 23456-345              | 0.064             | 0.042           |
| 117                              | 47.55             | 9:3       | <b>206</b>           | 1.034  | 23456-2345             | 0.379             | 0.229           |
| 118                              | 53.54             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.002             | 0.001           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 127 ng/mL

Total Nanomoles = 0.450

Average Molecular Weight = 281.1

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

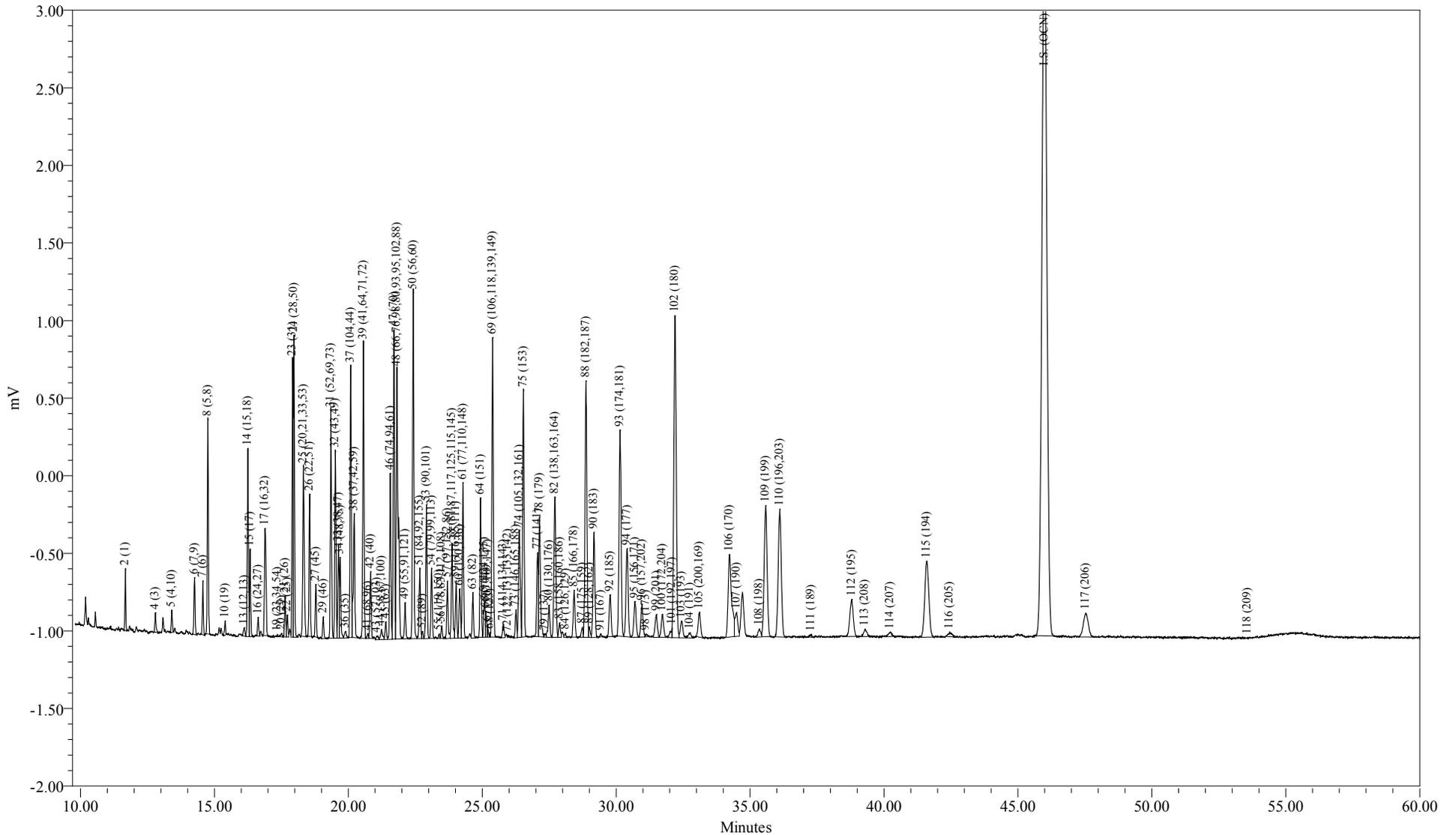
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



Sample Name: CCCS0612A  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/12/2015 7:04:27 PM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1179-3 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 19:04:27  
 Lab Sample ID: CCCS0612A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-3

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 130 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 10.95    | 16.37  |
| Di       | 11.64    | 14.64  |
| Tri      | 17.68    | 19.34  |
| Tetra    | 22.39    | 21.69  |
| Penta    | 8.54     | 7.34   |
| Hexa     | 7.45     | 5.88   |
| Hepta    | 13.39    | 9.57   |
| Octa     | 7.31     | 4.79   |
| Nona     | 0.64     | 0.39   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.9500            | 37.1     | 30.6  |
| A1242    | 23+24/31+28                        | 6.4944            | 30.3     | 25.0  |
| A1254SED | 61/100                             | 1.6799            | 7.85     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.2773            |          | 24.1  |
| A1260    | 102/180                            | 4.0996            | 19.2     | 15.8  |
| A1268    | 115/194                            | 1.1782            | 5.51     | 4.53  |

Ortho Cl / biphenyl Residue = 1.57

Meta + Para Cl / biphenyl Residue = 2.14

Total Cl / biphenyl Residue = 3.71

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 19:04:27  
 Lab Sample ID: CCCS0612A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-3

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 737       | 7.95           | 42.1                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 325       | 6.32           | 33.5                  |             |            |      |
| 5                | 13.40          | 223.1            | 401       | 2.00           | 8.95                  |             |            |      |
| 6                | 14.26          | 223.1            | 1076      | 0.788          | 3.53                  |             |            |      |
| 7                | 14.57          | 223.1            | 839       | 1.22           | 5.48                  |             |            |      |
| 8                | 14.76          | 223.1            | 3624      | 10.2           | 45.7                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.40          | 257.5            | 258       | 0.259          | 1.01                  |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.12          | 223.1            | 210       | 0.200          | 0.896                 |             |            |      |
| 14               | 16.25          | 249.0            | 3582      | 3.07           | 12.3                  |             |            |      |
| 15               | 16.33          | 257.5            | 1522      | 2.90           | 11.3                  |             |            |      |
| 16               | 16.63          | 257.5            | 345       | 0.218          | 0.847                 |             |            |      |
| 17               | 16.89          | 257.5            | 2850      | 3.04           | 11.8                  |             |            |      |
| 19               | 17.35          | 267.9            | 22        | 0.0192         | 0.0718                |             |            |      |
| 20               | 17.51          | 257.5            | 79        | 0.0673         | 0.261                 |             |            |      |
| 21               | 17.64          | 257.5            | 752       | 0.662          | 2.57                  |             |            |      |
| 22               | 17.72          | 257.5            | 437       | 0.307          | 1.19                  |             |            |      |
| 23               | 17.92          | 257.5            | 4821      | 3.22           | 12.5                  |             |            |      |
| 24               | 17.97          | 257.5            | 5526      | 3.27           | 12.7                  |             |            |      |
| 25               | 18.32          | 259.5            | 4067      | 3.16           | 12.2                  |             |            |      |
| 26               | 18.56          | 258.7            | 2629      | 2.22           | 8.57                  |             |            |      |
| 27               | 18.79          | 292.0            | 1005      | 0.746          | 2.56                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.06          | 292.0            | 437       | 0.366          | 1.25                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4561      | 4.19           | 14.4                  |             |            |      |
| 32               | 19.51          | 292.0            | 3740      | 1.76           | 6.01                  |             |            |      |
| 33               | 19.63          | 292.0            | 1822      | 0.614          | 2.10                  |             |            |      |
| 34               | 19.69          | 292.0            | 1691      | 0.823          | 2.82                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.89          | 257.5            | 208       | 0.235          | 0.911                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5542      | 3.37           | 11.5                  |             |            |      |
| 38               | 20.22          | 272.4            | 3160      | 2.48           | 9.10                  |             |            |      |
| 39               | 20.56          | 292.0            | 6132      | 2.97           | 10.2                  |             |            |      |
| 41               | 20.72          | 326.4            | 108       | 0.0811         | 0.249                 |             |            |      |
| 42               | 20.83          | 292.0            | 1371      | 0.830          | 2.84                  |             |            |      |
| 43               | 21.06          | 298.9            | 134       | 0.0745         | 0.249                 |             |            |      |
| 44               | 21.24          | 298.9            | 318       | 0.133          | 0.445                 |             |            |      |
| 45               | 21.40          | 292.0            | 403       | 0.186          | 0.638                 |             |            |      |
| 46               | 21.57          | 292.0            | 3461      | 1.12           | 3.84                  |             |            |      |
| 47               | 21.70          | 292.0            | 6402      | 2.60           | 8.92                  |             |            |      |
| 48               | 21.81          | 293.5            | 8372      | 5.13           | 17.5                  |             |            |      |
| 49               | 22.12          | 324.7            | 801       | 0.470          | 1.45                  |             |            |      |
| 50               | 22.42          | 292.0            | 7625      | 3.20           | 11.0                  |             |            |      |
| 51               | 22.67          | 326.4            | 1620      | 1.74           | 5.34                  |             |            |      |
| 52               | 22.77          | 326.4            | 154       | 0.0936         | 0.287                 |             |            |      |
| 53               | 22.92          | 326.4            | 2819      | 1.35           | 4.12                  |             |            |      |
| 54               | 23.11          | 326.4            | 1472      | 0.469          | 1.44                  |             |            |      |
| 55               | 23.39          | 326.4            | 79        | 0.0182         | 0.0559                |             |            |      |
| 56               | 23.48          | 326.4            | 272       | 0.154          | 0.470                 |             |            |      |
| 57               | 23.70          | 326.4            | 1278      | 0.489          | 1.50                  |             |            |      |
| 58               | 23.87          | 326.4            | 2197      | 0.980          | 3.00                  |             |            |      |
| 59               | 24.02          | 326.4            | 1218      | 0.452          | 1.39                  |             |            |      |
| 60               | 24.16          | 360.9            | 1232      | 0.537          | 1.49                  |             |            |      |
| 61               | 24.28          | 326.4            | 3354      | 1.68           | 5.15                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 942       | 0.398          | 1.22                  |             |            |      |
| 64               | 24.94          | 360.9            | 3001      | 1.31           | 3.64                  |             |            |      |
| 65               | 25.08          | 350.5            | 839       | 0.219          | 0.626                 |             |            |      |
| 66               | 25.13          | 360.9            | 545       | 0.417          | 1.15                  |             |            |      |
| 67               | 25.20          | 336.8            | 171       | 0.0905         | 0.269                 |             |            |      |
| 68               | 25.29          | 326.4            | 51        | 0.0217         | 0.0665                |             |            |      |
| 69               | 25.39          | 337.5            | 7184      | 2.83           | 8.40                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 358       | 0.153          | 0.440                 |             |            |      |
| 72               | 25.95          | 336.8            | 62        | 0.0183         | 0.0543                |             |            |      |
| 73               | 26.26          | 360.9            | 635       | 0.256          | 0.708                 |             |            |      |
| 74               | 26.39          | 347.8            | 3146      | 0.959          | 2.76                  |             |            |      |
| 75               | 26.54          | 360.9            | 5921      | 1.86           | 5.16                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.06          | 360.9            | 2042      | 1.14           | 3.16                  |             |            |      |
| 78               | 27.14          | 395.3            | 3278      | 1.39           | 3.52                  |             |            |      |
| 79               | 27.33          | 360.9            | 97        | 0.130          | 0.361                 |             |            |      |
| 80               | 27.50          | 360.9            | 946       | 0.217          | 0.600                 |             |            |      |
| 82               | 27.71          | 360.9            | 4584      | 1.58           | 4.39                  |             |            |      |
| 83               | 27.89          | 360.9            | 415       | 0.149          | 0.412                 |             |            |      |
| 84               | 28.11          | 360.9            | 103       | 0.0130         | 0.0361                |             |            |      |
| 85               | 28.43          | 395.3            | 1337      | 0.934          | 2.36                  |             |            |      |
| 87               | 28.73          | 395.3            | 261       | 0.182          | 0.461                 |             |            |      |
| 88               | 28.87          | 395.3            | 8056      | 2.82           | 7.14                  |             |            |      |
| 89               | 29.00          | 360.9            | 258       | 0.0722         | 0.200                 |             |            |      |
| 90               | 29.17          | 395.3            | 3259      | 1.24           | 3.14                  |             |            |      |
| 91               | 29.42          | 360.9            | 65        | 0.0365         | 0.101                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.78          | 394.3            | 1376      | 0.365          | 0.926                 |             |            |      |
| 93               | 30.15          | 394.3            | 7035      | 2.55           | 6.46                  |             |            |      |
| 94               | 30.40          | 394.3            | 3182      | 1.32           | 3.35                  |             |            |      |
| 95               | 30.70          | 382.2            | 1352      | 0.555          | 1.45                  |             |            |      |
| 96               | 30.96          | 429.8            | 1146      | 0.0646         | 0.150                 |             |            |      |
| 98               | 31.11          | 395.3            | 98        | 0.0372         | 0.0941                |             |            |      |
| 99               | 31.50          | 429.8            | 877       | 0.362          | 0.843                 |             |            |      |
| 100              | 31.72          | 395.3            | 892       | 0.413          | 1.05                  |             |            |      |
| 101              | 32.08          | 429.8            | 262       | 0.189          | 0.441                 |             |            |      |
| 102              | 32.20          | 395.3            | 13146     | 4.10           | 10.4                  |             |            |      |
| 103              | 32.44          | 395.3            | 734       | 0.349          | 0.883                 |             |            |      |
| 104              | 32.76          | 395.3            | 233       | 0.109          | 0.275                 |             |            |      |
| 105              | 33.11          | 429.8            | 1036      | 0.387          | 0.900                 |             |            |      |
| 106              | 34.23          | 395.3            | 4716      | 0.967          | 2.45                  |             |            |      |
| 107              | 34.49          | 395.3            | 1138      | 0.309          | 0.781                 |             |            |      |
| 108              | 35.34          | 429.8            | 362       | 0.110          | 0.255                 |             |            |      |
| 109              | 35.58          | 429.8            | 6381      | 3.52           | 8.18                  |             |            |      |
| 110              | 36.11          | 429.8            | 6533      | 3.22           | 7.48                  |             |            |      |
| 111              | 37.28          | 395.3            | 88        | 0.0212         | 0.0536                |             |            |      |
| 112              | 38.79          | 429.8            | 2143      | 0.413          | 0.961                 |             |            |      |
| 113              | 39.28          | 464.2            | 378       | 0.233          | 0.501                 |             |            |      |
| 114              | 40.23          | 464.2            | 242       | 0.0801         | 0.172                 |             |            |      |
| 115              | 41.59          | 429.8            | 5153      | 1.18           | 2.74                  |             |            |      |
| 116              | 42.45          | 429.8            | 252       | 0.0873         | 0.203                 |             |            |      |
| 117              | 47.53          | 464.2            | 1995      | 0.523          | 1.13                  |             |            |      |
| 118              | 53.57          | 498.6            | 12        | 0.00478        | 0.00958               |             |            |      |

Total Concentration = 130 ng/mL

Total Nanomoles = 0.462

Average Molecular Weight = 282.1

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.00 minutes

OCN Internal Standard Peak Area = 59007.8

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 19:04:27  
 Lab Sample ID: CCCS0612A  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-3

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2537 | 2                          | 6.099             | 9.117           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 4.851             | 7.250           |
| 5                                | 13.40             | 2:2       | 004 010              | 0.2913 | 2-2; 26                    | 1.532             | 1.937           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3100 | 24; 25                     | 0.604             | 0.764           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3167 | 2-3                        | 0.938             | 1.186           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 7.827             | 9.895           |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.40             | 3:3       | 019                  | 0.3348 | 26-2                       | 0.199             | 0.218           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.12             | 2:0       | 012 013              | 0.3504 | 34; 3-4                    | 0.153             | 0.194           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.357             | 2.670           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3550 | 24-2                       | 2.224             | 2.437           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3615 | 236; 26-3                  | 0.167             | 0.183           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3672 | 23-2; 26-4                 | 2.334             | 2.557           |
| 19                               | 17.35             | 3:1 4:4   | 023 034 054          | 0.3772 | 235; 35-2; 26-26           | 0.015             | 0.016           |
| 20                               | 17.51             | 3:1       | 029                  | 0.3807 | 245                        | 0.052             | 0.057           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3835 | 25-3                       | 0.508             | 0.556           |
| 22                               | 17.72             | 3:1       | 025                  | 0.3852 | 24-3                       | 0.235             | 0.258           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.472             | 2.708           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.511             | 2.750           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3983 | 23-3; 234; 34-2; 25-26     | 2.422             | 2.633           |
| 26                               | 18.56             | 3:1 4:3   | 022 051              | 0.4035 | 23-4; 24-26                | 1.701             | 1.854           |
| 27                               | 18.79             | 4:3       | 045                  | 0.4085 | 236-2                      | 0.573             | 0.553           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.06             | 4:3       | 046                  | 0.4143 | 23-26                      | 0.280             | 0.271           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35        | 3.218             | 3.108           |
| 32                               | 19.51             | 4:2       | 043 049              | 0.4241 | 235-2; 24-25               | 1.347             | 1.301           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4267 | 345; 24-24                 | 0.471             | 0.455           |
| 34                               | 19.69             | 4:2       | 048 075              | 0.4280 | 245-2; 246-4               | 0.631             | 0.610           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.89             | 3:0       | 035                  | 0.4324 | 34-3                       | 0.180             | 0.197           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4367 | 246-26; 23-25              | 2.584             | 2.496           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3         | 1.902             | 1.969           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4470 | 234-2; 236-4; 26-34; 25-35 | 2.276             | 2.198           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.72             | 5:4       | 068 096                         | 0.4504 | 24-35; 236-26   | 0.062             | 0.054           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4528 | 23-23   | 0.637             | 0.615           |
| 43                               | 21.06             | 4:1 5:3   | 057 103                         | 0.4578 | 235-3; 246-25   | 0.057             | 0.054           |
| 44                               | 21.24             | 4:1 5:3   | 058 067 100                     | 0.4617 | 23-35; 245-3; 246-24  | 0.102             | 0.096           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4652 | 235-4   | 0.143             | 0.138           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4689 | 245-4; 235-26; 2345   | 0.861             | 0.832           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4717 | 25-34   | 1.998             | 1.930           |
| 48                               | 21.81             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4741 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.935             | 3.782           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4809 | 234-3; 236-24; 246-35                                       | 0.360             | 0.313           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4874 | 23-34; 234-4  | 2.456             | 2.372           |
| 51                               | 22.67             | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 1.338             | 1.156           |
| 52                               | 22.77             | 5:3       | 089                             | 0.4950 | 234-26  | 0.072             | 0.062           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4983 | 235-24; 245-25  | 1.033             | 0.892           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5024 | 34-35; 245-24; 236-35                                       | 0.360             | 0.311           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5085 | 246-34; 236-246   | 0.014             | 0.012           |
| 56                               | 23.48             | 5:2       | 078 083 112 108                 | 0.5104 | 345-3; 235-23; 2356-3; 2346-3                               | 0.118             | 0.102           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 0.375             | 0.324           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5189 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.752             | 0.650           |
| 59                               | 24.02             | 5:2       | 116 085 111                     | 0.5222 | 23456; 234-24; 235-35                                       | 0.347             | 0.300           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5252 | 245-35; 236-236   | 0.412             | 0.322           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5278 | 34-34; 236-34; 235-246                                      | 1.289             | 1.114           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5359 | 234-23  | 0.305             | 0.264           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5422 | 2356-25   | 1.007             | 0.787           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5452 | 345-25; 235-236   | 0.168             | 0.135           |
| 66                               | 25.13             | 6:3       | 144                             | 0.5463 | 2346-25   | 0.320             | 0.250           |
| 67                               | 25.20             | 5:1 6:3   | 107 109 147                     | 0.5478 | 234-35; 235-34; 2356-24                                     | 0.069             | 0.058           |
| 68                               | 25.29             | 5:1       | 123                             | 0.5498 | 345-24  | 0.017             | 0.014           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5520 | 2345-3; 245-34; 2346-24; 236-245                            | 2.174             | 1.817           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5604 | 2345-4; 2356-23; 2345-26                                    | 0.117             | 0.095           |
| 72                               | 25.95             | 5:1 6:3   | 122 131 133 142                 | 0.5641 | 345-23; 2346-23; 235-235; 23456-2                           | 0.014             | 0.012           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5709 | 235-245; 2356-35; 2356-246                                  | 0.196             | 0.153           |
| 74                               | 26.39             | 5:1 6:3   | 105 132 161                     | 0.5737 | 234-34; 234-236; 2346-35                                    | 0.736             | 0.597           |
| 75                               | 26.54             | 6:2       | 153                             | 0.5770 | 245-245   | 1.427             | 1.116           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.06             | 6:2       | 141                             | 0.5883 | 2345-25   | 0.875             | 0.684           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5900 | 2356-236  | 1.067             | 0.761           |
| 79                               | 27.33             | 6:2       | 137                             | 0.5941 | 2345-24   | 0.100             | 0.078           |
| 80                               | 27.50             | 6:2 7:4   | 130 176                         | 0.5978 | 234-235; 2346-236   | 0.166             | 0.130           |
| 82                               | 27.71             | 6:2       | 138 163 164                     | 0.6024 | 234-245; 2356-34; 236-345                                   | 1.215             | 0.949           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6063 | 2346-34; 23456-3; 23456-26                                  | 0.114             | 0.089           |
| 84                               | 28.11             | 6:2       | 126 129                         | 0.6111 | 345-34; 2345-23   | 0.010             | 0.008           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6180 | 23456-4; 2356-235   | 0.717             | 0.511           |
| 87                               | 28.73             | 7:3       | 175 159                         | 0.6246 | 2346-235; 2345-35   | 0.140             | 0.100           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6276 | 2345-246; 2356-245  | 2.167             | 1.546           |
| 89                               | 29.00             | 6:2       | 128 162                         | 0.6304 | 234-234; 235-345  | 0.055             | 0.043           |
| 90                               | 29.17             | 7:3       | 183                             | 0.6341 | 2346-245  | 0.951             | 0.679           |
| 91                               | 29.42             | 6:1       | 167                             | 0.6396 | 245-345   | 0.028             | 0.022           |
| 92                               | 29.78             | 7:3       | 185                             | 0.6474 | 23456-25  | 0.280             | 0.200           |
| 93                               | 30.15             | 7:3       | 174 181                         | 0.6554 | 2345-236; 23456-24  | 1.953             | 1.397           |
| 94                               | 30.40             | 7:3       | 177                             | 0.6609 | 2356-234  | 1.014             | 0.726           |
| 95                               | 30.70             | 6:1 7:3   | 156 171                         | 0.6674 | 2345-34; 2346-234   | 0.426             | 0.314           |
| 96                               | 30.96             | 8:4       | 157 202                         | 0.6730 | 234-345; 2356-2356  | 0.050             | 0.033           |
| 98                               | 31.11             | 7:3       | 173                             | 0.6763 | 23456-23  | 0.029             | 0.020           |
| 99                               | 31.50             | 8:4       | 201                             | 0.6848 | 2346-2356   | 0.278             | 0.182           |
| 100                              | 31.72             | 7:2       | 172 204                         | 0.6896 | 2345-235; 23456-246   | 0.317             | 0.226           |
| 101                              | 32.08             | 8:4       | 192 197                         | 0.6974 | 23456-35; 2346-2346   | 0.145             | 0.095           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7000 | 2345-245  | 3.145             | 2.244           |
| 103                              | 32.44             | 7:2       | 193                             | 0.7052 | 2356-345  | 0.268             | 0.191           |
| 104                              | 32.76             | 7:2       | 191                             | 0.7122 | 2346-345  | 0.083             | 0.059           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7198 | 23456-236; 345-345  | 0.297             | 0.195           |
| 106                              | 34.23             | 7:2       | 170                             | 0.7441 | 2345-234  | 0.742             | 0.529           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.49             | 7:2       | <b>190</b>           | 0.7498 | 23456-34               | 0.237             | 0.169           |
| 108                              | 35.34             | 8:3       | <b>198</b>           | 0.7683 | 23456-235              | 0.084             | 0.055           |
| 109                              | 35.58             | 8:3       | <b>199</b>           | 0.7735 | 2345-2356              | 2.697             | 1.770           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7850 | 2345-2346; 23456-245   | 2.467             | 1.619           |
| 111                              | 37.28             | 7:1       | <b>189</b>           | 0.8104 | 2345-345               | 0.016             | 0.012           |
| 112                              | 38.79             | 8:3       | <b>195</b>           | 0.8433 | 23456-234              | 0.317             | 0.208           |
| 113                              | 39.28             | 9:4       | <b>208</b>           | 0.8539 | 23456-2356             | 0.179             | 0.109           |
| 114                              | 40.23             | 9:4       | <b>207</b>           | 0.8746 | 23456-2346             | 0.061             | 0.037           |
| 115                              | 41.59             | 8:2       | <b>194</b>           | 0.9041 | 2345-2345              | 0.904             | 0.593           |
| 116                              | 42.45             | 8:2       | <b>205</b>           | 0.9228 | 23456-345              | 0.067             | 0.044           |
| 117                              | 47.53             | 9:3       | <b>206</b>           | 1.033  | 23456-2345             | 0.401             | 0.244           |
| 118                              | 53.57             | 10:4      | <b>209</b>           | 1.165  | 23456-23456            | 0.004             | 0.002           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 130 ng/mL

Total Nanomoles = 0.462

Average Molecular Weight = 282.1

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

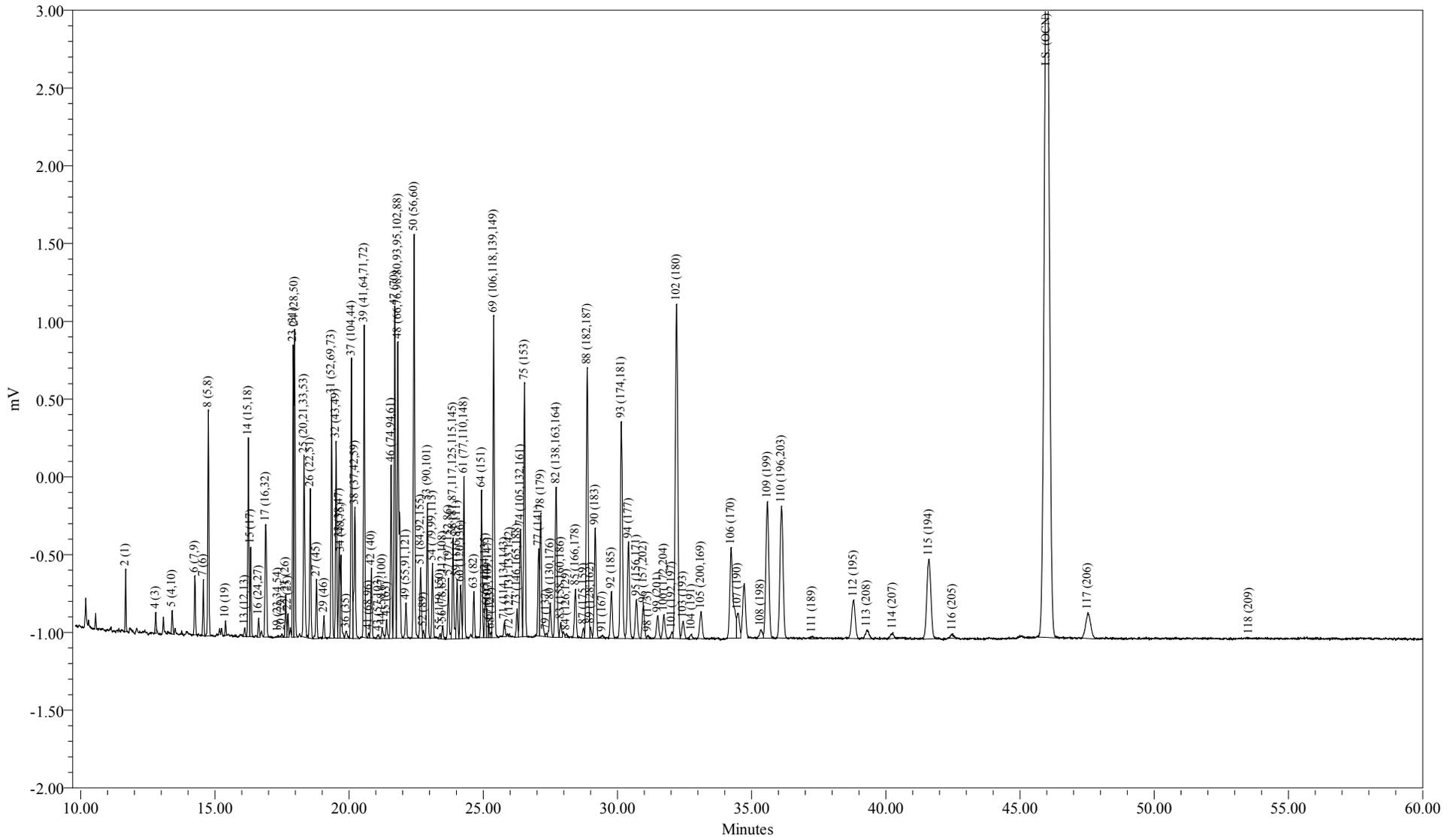
PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



Sample Name: CCCS0612B  
 Sample ID: CCC Std 122 ng/mL  
 Date Acquired: 6/13/2015 12:03:23 AM EDT

Sample Amount: 1  
 Dilution: 1  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1179-6 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/13/2015 00:03:23  
 Lab Sample ID: CCCS0612B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-6

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 126 ng/mL

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 9.96     | 14.98  |
| Di       | 11.78    | 14.90  |
| Tri      | 17.77    | 19.55  |
| Tetra    | 22.72    | 22.13  |
| Penta    | 8.64     | 7.47   |
| Hexa     | 7.48     | 5.93   |
| Hepta    | 13.57    | 9.75   |
| Octa     | 7.36     | 4.86   |
| Nona     | 0.71     | 0.44   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>(ng/mL) | Percent  |       |
|----------|------------------------------------|-------------------|----------|-------|
|          |                                    |                   | Sediment | Biota |
| A1221    | 2/001                              | 7.4396            | 36.4     | 29.8  |
| A1242    | 23+24/31+28                        | 6.2614            | 30.6     | 25.1  |
| A1254SED | 61/100                             | 1.6369            | 8.00     |       |
| A1254BIO | 69+75+82/149+153+138               | 6.1234            |          | 24.5  |
| A1260    | 102/180                            | 3.9734            | 19.4     | 15.9  |
| A1268    | 115/194                            | 1.1537            | 5.64     | 4.62  |

Ortho Cl / biphenyl Residue = 1.59  
 Meta + Para Cl / biphenyl Residue = 2.17  
 Total Cl / biphenyl Residue = 3.76

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/13/2015 00:03:23  
 Lab Sample ID: CCCS0612B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 2                | 11.67          | 188.7            | 745       | 7.44           | 39.4                  |             |            |      |
| 3                | 12.70          | 188.7            |           | -              | -                     |             |            |      |
| 4                | 12.80          | 188.7            | 284       | 5.11           | 27.1                  |             |            |      |
| 5                | 13.41          | 223.1            | 445       | 2.05           | 9.21                  |             |            |      |
| 6                | 14.26          | 223.1            | 1078      | 0.730          | 3.27                  |             |            |      |
| 7                | 14.57          | 223.1            | 865       | 1.17           | 5.23                  |             |            |      |
| 8                | 14.76          | 223.1            | 3834      | 9.99           | 44.8                  |             |            |      |
| 9                | 15.32          | 223.1            |           | -              | -                     |             |            |      |
| 10               | 15.39          | 257.5            | 221       | 0.205          | 0.797                 |             |            |      |
| 11               | 15.87          | 257.5            |           | -              | -                     |             |            |      |
| 12               | 15.93          | 223.1            |           | -              | -                     |             |            |      |
| 13               | 16.11          | 223.1            | 190       | 0.167          | 0.747                 |             |            |      |
| 14               | 16.25          | 249.0            | 3722      | 2.95           | 11.9                  |             |            |      |
| 15               | 16.33          | 257.5            | 1567      | 2.76           | 10.7                  |             |            |      |
| 16               | 16.63          | 257.5            | 344       | 0.202          | 0.783                 |             |            |      |
| 17               | 16.89          | 257.5            | 3027      | 2.99           | 11.6                  |             |            |      |
| 19               | 17.35          | 267.9            | 31        | 0.0248         | 0.0925                |             |            |      |
| 20               | 17.49          | 257.5            | 68        | 0.0539         | 0.209                 |             |            |      |
| 21               | 17.64          | 257.5            | 775       | 0.632          | 2.45                  |             |            |      |
| 22               | 17.72          | 257.5            | 432       | 0.281          | 1.09                  |             |            |      |
| 23               | 17.92          | 257.5            | 5025      | 3.11           | 12.1                  |             |            |      |
| 24               | 17.97          | 257.5            | 5756      | 3.15           | 12.2                  |             |            |      |
| 25               | 18.32          | 259.5            | 4339      | 3.12           | 12.0                  |             |            |      |
| 26               | 18.56          | 258.7            | 2851      | 2.23           | 8.60                  |             |            |      |
| 27               | 18.79          | 292.0            | 1177      | 0.809          | 2.77                  |             |            |      |
| 28               | 18.93          | 257.5            |           | -              | -                     |             |            |      |
| 29               | 19.07          | 292.0            | 426       | 0.329          | 1.13                  |             |            |      |
| 30               | 19.18          | 257.5            |           | -              | -                     |             |            |      |
| 31               | 19.35          | 292.0            | 4749      | 4.04           | 13.8                  |             |            |      |
| 32               | 19.52          | 292.0            | 3915      | 1.70           | 5.83                  |             |            |      |
| 33               | 19.63          | 292.0            | 1928      | 0.602          | 2.06                  |             |            |      |
| 34               | 19.70          | 292.0            | 1761      | 0.794          | 2.72                  |             |            |      |
| 35               | 19.85          | 292.0            |           | -              | -                     |             |            |      |
| 36               | 19.89          | 257.5            | 258       | 0.270          | 1.05                  |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 37               | 20.09          | 292.0            | 5841      | 3.28           | 11.2                  |             |            |      |
| 38               | 20.22          | 272.4            | 3364      | 2.44           | 8.97                  |             |            |      |
| 39               | 20.56          | 292.0            | 6350      | 2.84           | 9.74                  |             |            |      |
| 41               | 20.73          | 326.4            | 89        | 0.0623         | 0.191                 |             |            |      |
| 42               | 20.83          | 292.0            | 1430      | 0.801          | 2.74                  |             |            |      |
| 43               | 21.09          | 298.9            | 113       | 0.0581         | 0.194                 |             |            |      |
| 44               | 21.23          | 298.9            | 305       | 0.118          | 0.395                 |             |            |      |
| 45               | 21.40          | 292.0            | 443       | 0.189          | 0.649                 |             |            |      |
| 46               | 21.57          | 292.0            | 3587      | 1.08           | 3.69                  |             |            |      |
| 47               | 21.70          | 292.0            | 6716      | 2.53           | 8.66                  |             |            |      |
| 48               | 21.82          | 293.5            | 8798      | 4.99           | 17.0                  |             |            |      |
| 49               | 22.12          | 324.7            | 809       | 0.439          | 1.35                  |             |            |      |
| 50               | 22.42          | 292.0            | 8711      | 3.39           | 11.6                  |             |            |      |
| 51               | 22.66          | 326.4            | 1690      | 1.68           | 5.16                  |             |            |      |
| 52               | 22.77          | 326.4            | 172       | 0.0963         | 0.295                 |             |            |      |
| 53               | 22.92          | 326.4            | 2955      | 1.31           | 4.00                  |             |            |      |
| 54               | 23.11          | 326.4            | 1533      | 0.452          | 1.38                  |             |            |      |
| 55               | 23.39          | 326.4            | 101       | 0.0215         | 0.0658                |             |            |      |
| 56               | 23.49          | 326.4            | 323       | 0.169          | 0.517                 |             |            |      |
| 57               | 23.70          | 326.4            | 1389      | 0.492          | 1.51                  |             |            |      |
| 58               | 23.87          | 326.4            | 2375      | 0.981          | 3.00                  |             |            |      |
| 59               | 24.02          | 326.4            | 1275      | 0.439          | 1.34                  |             |            |      |
| 60               | 24.16          | 360.9            | 1316      | 0.531          | 1.47                  |             |            |      |
| 61               | 24.28          | 326.4            | 3531      | 1.64           | 5.02                  |             |            |      |
| 62               | 24.57          | 360.9            |           | -              | -                     |             |            |      |
| 63               | 24.65          | 326.4            | 962       | 0.376          | 1.15                  |             |            |      |
| 64               | 24.94          | 360.9            | 3198      | 1.29           | 3.59                  |             |            |      |
| 65               | 25.08          | 350.5            | 890       | 0.215          | 0.614                 |             |            |      |
| 66               | 25.14          | 360.9            | 578       | 0.410          | 1.13                  |             |            |      |
| 67               | 25.19          | 336.8            | 248       | 0.122          | 0.362                 |             |            |      |
| 68               | 25.29          | 326.4            | 98        | 0.0386         | 0.118                 |             |            |      |
| 69               | 25.39          | 337.5            | 7617      | 2.78           | 8.24                  |             |            |      |
| 70               | 25.52          | 360.9            |           | -              | -                     |             |            |      |
| 71               | 25.78          | 347.8            | 353       | 0.139          | 0.401                 |             |            |      |
| 72               | 25.97          | 336.8            | 46        | 0.0126         | 0.0374                |             |            |      |
| 73               | 26.26          | 360.9            | 638       | 0.238          | 0.658                 |             |            |      |
| 74               | 26.39          | 347.8            | 3267      | 0.922          | 2.65                  |             |            |      |
| 75               | 26.54          | 360.9            | 6202      | 1.80           | 5.00                  |             |            |      |
| 76               | 26.65          | 360.9            |           | -              | -                     |             |            |      |
| 77               | 27.07          | 360.9            | 2094      | 1.08           | 3.00                  |             |            |      |
| 78               | 27.14          | 395.3            | 3484      | 1.37           | 3.46                  |             |            |      |
| 79               | 27.35          | 360.9            | 80        | 0.0998         | 0.276                 |             |            |      |
| 80               | 27.50          | 360.9            | 1009      | 0.214          | 0.593                 |             |            |      |
| 82               | 27.72          | 360.9            | 4817      | 1.54           | 4.27                  |             |            |      |
| 83               | 27.89          | 360.9            | 416       | 0.138          | 0.382                 |             |            |      |
| 84               | 28.09          | 360.9            | 107       | 0.0125         | 0.0347                |             |            |      |
| 85               | 28.43          | 395.3            | 1446      | 0.936          | 2.37                  |             |            |      |
| 87               | 28.73          | 395.3            | 265       | 0.171          | 0.433                 |             |            |      |
| 88               | 28.87          | 395.3            | 8507      | 2.76           | 6.98                  |             |            |      |
| 89               | 28.99          | 360.9            | 263       | 0.0681         | 0.189                 |             |            |      |
| 90               | 29.17          | 395.3            | 3469      | 1.22           | 3.09                  |             |            |      |
| 91               | 29.44          | 360.9            | 104       | 0.0536         | 0.148                 |             |            |      |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/mL) | Sample (Picomoles/mL) | MDL (ng/mL) | RL (ng/mL) | Qual |
|------------------|----------------|------------------|-----------|----------------|-----------------------|-------------|------------|------|
| 92               | 29.77          | 394.3            | 1525      | 0.375          | 0.950                 |             |            |      |
| 93               | 30.14          | 394.3            | 7538      | 2.52           | 6.40                  |             |            |      |
| 94               | 30.41          | 394.3            | 3385      | 1.30           | 3.30                  |             |            |      |
| 95               | 30.71          | 382.2            | 1403      | 0.533          | 1.39                  |             |            |      |
| 96               | 30.97          | 429.8            | 1203      | 0.0627         | 0.146                 |             |            |      |
| 98               | 31.14          | 395.3            | 108       | 0.0382         | 0.0966                |             |            |      |
| 99               | 31.50          | 429.8            | 886       | 0.338          | 0.787                 |             |            |      |
| 100              | 31.73          | 395.3            | 918       | 0.394          | 0.997                 |             |            |      |
| 101              | 32.02          | 429.8            | 199       | 0.134          | 0.311                 |             |            |      |
| 102              | 32.20          | 395.3            | 13767     | 3.97           | 10.1                  |             |            |      |
| 103              | 32.44          | 395.3            | 723       | 0.318          | 0.805                 |             |            |      |
| 104              | 32.76          | 395.3            | 192       | 0.0828         | 0.209                 |             |            |      |
| 105              | 33.11          | 429.8            | 1105      | 0.382          | 0.888                 |             |            |      |
| 106              | 34.24          | 395.3            | 5197      | 0.987          | 2.50                  |             |            |      |
| 107              | 34.48          | 395.3            | 1095      | 0.275          | 0.696                 |             |            |      |
| 108              | 35.33          | 429.8            | 424       | 0.119          | 0.277                 |             |            |      |
| 109              | 35.59          | 429.8            | 6806      | 3.47           | 8.08                  |             |            |      |
| 110              | 36.11          | 429.8            | 6873      | 3.13           | 7.28                  |             |            |      |
| 111              | 37.25          | 395.3            | 146       | 0.0328         | 0.0830                |             |            |      |
| 112              | 38.80          | 429.8            | 2284      | 0.407          | 0.948                 |             |            |      |
| 113              | 39.29          | 464.2            | 510       | 0.291          | 0.627                 |             |            |      |
| 114              | 40.25          | 464.2            | 306       | 0.0934         | 0.201                 |             |            |      |
| 115              | 41.60          | 429.8            | 5450      | 1.15           | 2.68                  |             |            |      |
| 116              | 42.49          | 429.8            | 233       | 0.0749         | 0.174                 |             |            |      |
| 117              | 47.52          | 464.2            | 2125      | 0.516          | 1.11                  |             |            |      |
| 118              | 53.53          | 498.6            | 8         | 0.00267        | 0.00535               |             |            |      |

Total Concentration = 126 ng/mL

Total Nanomoles = 0.444

Average Molecular Weight = 283.7

Number of Calibrated Peaks Found = 102

OCN Internal Standard Retention Time = 46.00 minutes

OCN Internal Standard Peak Area = 63741.0

### PCB Congener Amount Report

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: CCC Std 122 ng/mL  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/13/2015 00:03:23  
 Lab Sample ID: CCCS0612B  
 LRF ID: CCC Std 122 ng/mL  
 Lab File ID: GC24-1179-6

Type for Mixed Peak Deconvolution = S

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup>     | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|----------------------------|-------------------|-----------------|
| 2                                | 11.67             | 1:1       | 001                  | 0.2537 | 2                          | 5.906             | 8.879           |
| 3                                | 12.70             | 1:0       | 002                  |        | 3                          | -                 | -               |
| 4                                | 12.80             | 1:0       | 003                  | 0.2783 | 4                          | 4.056             | 6.097           |
| 5                                | 13.41             | 2:2       | 004 010              | 0.2915 | 2-2; 26                    | 1.631             | 2.073           |
| 6                                | 14.26             | 2:1       | 007 009              | 0.3100 | 24; 25                     | 0.579             | 0.737           |
| 7                                | 14.57             | 2:1       | 006                  | 0.3167 | 2-3                        | 0.926             | 1.178           |
| 8                                | 14.76             | 2:1       | 005 008              | 0.3209 | 23; 2-4                    | 7.931             | 10.084          |
| 9                                | 15.32             | 2:0       | 014                  |        | 35                         | -                 | -               |
| 10                               | 15.39             | 3:3       | 019                  | 0.3346 | 26-2                       | 0.163             | 0.180           |
| 11                               | 15.87             | 3:2       | 030                  |        | 246                        | -                 | -               |
| 12                               | 15.93             | 2:0       | 011                  |        | 3-3                        | -                 | -               |
| 13                               | 16.11             | 2:0       | 012 013              | 0.3502 | 34; 3-4                    | 0.132             | 0.168           |
| 14                               | 16.25             | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2                  | 2.345             | 2.672           |
| 15                               | 16.33             | 3:2       | 017                  | 0.3550 | 24-2                       | 2.193             | 2.416           |
| 16                               | 16.63             | 3:2       | 024 027              | 0.3615 | 236; 26-3                  | 0.160             | 0.176           |
| 17                               | 16.89             | 3:2       | 016 032              | 0.3672 | 23-2; 26-4                 | 2.375             | 2.617           |
| 19                               | 17.35             | 3:1 4:4   | 023 034 054          | 0.3772 | 235; 35-2; 26-26           | 0.020             | 0.021           |
| 20                               | 17.49             | 3:1       | 029                  | 0.3802 | 245                        | 0.043             | 0.047           |
| 21                               | 17.64             | 3:1       | 026                  | 0.3835 | 25-3                       | 0.501             | 0.552           |
| 22                               | 17.72             | 3:1       | 025                  | 0.3852 | 24-3                       | 0.223             | 0.246           |
| 23                               | 17.92             | 3:1       | 031                  | 0.3896 | 25-4                       | 2.467             | 2.718           |
| 24                               | 17.97             | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2                | 2.504             | 2.758           |
| 25                               | 18.32             | 3:1 4:3   | 020 021 033 053      | 0.3983 | 23-3; 234; 34-2; 25-26     | 2.475             | 2.706           |
| 26                               | 18.56             | 3:1 4:3   | 022 051              | 0.4035 | 23-4; 24-26                | 1.766             | 1.937           |
| 27                               | 18.79             | 4:3       | 045                  | 0.4085 | 236-2                      | 0.643             | 0.624           |
| 28                               | 18.93             | 3:0       | 036                  |        | 35-3                       | -                 | -               |
| 29                               | 19.07             | 4:3       | 046                  | 0.4146 | 23-26                      | 0.261             | 0.254           |
| 30                               | 19.18             | 3:0       | 039                  |        | 35-4                       | -                 | -               |
| 31                               | 19.35             | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35        | 3.208             | 3.117           |
| 32                               | 19.52             | 4:2       | 043 049              | 0.4243 | 235-2; 24-25               | 1.350             | 1.312           |
| 33                               | 19.63             | 4:2       | 038 047              | 0.4267 | 345; 24-24                 | 0.478             | 0.464           |
| 34                               | 19.70             | 4:2       | 048 075              | 0.4283 | 245-2; 246-4               | 0.630             | 0.612           |
| 35                               | 19.85             | 4:2       | 062 065              |        | 2346; 2356                 | -                 | -               |
| 36                               | 19.89             | 3:0       | 035                  | 0.4324 | 34-3                       | 0.214             | 0.236           |
| 37                               | 20.09             | 5:4 4:2   | 104 044              | 0.4367 | 246-26; 23-25              | 2.608             | 2.533           |
| 38                               | 20.22             | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3         | 1.939             | 2.019           |
| 39                               | 20.56             | 4:2       | 041 064 071 072      | 0.4470 | 234-2; 236-4; 26-34; 25-35 | 2.257             | 2.192           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|---------------------------------|--------|---|-------------------|-----------------|
| 41                               | 20.73             | 5:4       | 068 096                         | 0.4507 | 24-35; 236-26   | 0.049             | 0.043           |
| 42                               | 20.83             | 4:2       | 040                             | 0.4528 | 23-23   | 0.636             | 0.618           |
| 43                               | 21.09             | 4:1 5:3   | 057 103                         | 0.4585 | 235-3; 246-25   | 0.046             | 0.044           |
| 44                               | 21.23             | 4:1 5:3   | 058 067 100                     | 0.4615 | 23-35; 245-3; 246-24  | 0.094             | 0.089           |
| 45                               | 21.40             | 4:1       | 063                             | 0.4652 | 235-4   | 0.150             | 0.146           |
| 46                               | 21.57             | 4:1 5:3   | 074 094 061                     | 0.4689 | 245-4; 235-26; 2345   | 0.854             | 0.830           |
| 47                               | 21.70             | 4:1       | 070                             | 0.4717 | 25-34   | 2.007             | 1.950           |
| 48                               | 21.82             | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4743 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 3.959             | 3.827           |
| 49                               | 22.12             | 4:1 5:3   | 055 091 121                     | 0.4809 | 234-3; 236-24; 246-35                                       | 0.349             | 0.305           |
| 50                               | 22.42             | 4:1       | 056 060                         | 0.4874 | 23-34; 234-4  | 2.689             | 2.612           |
| 51                               | 22.66             | 5:3 6:4   | 084 092 155                     | 0.4926 | 236-23; 235-25; 246-246                                     | 1.337             | 1.162           |
| 52                               | 22.77             | 5:3       | 089                             | 0.4950 | 234-26  | 0.076             | 0.066           |
| 53                               | 22.92             | 5:2       | 090 101                         | 0.4983 | 235-24; 245-25  | 1.037             | 0.901           |
| 54                               | 23.11             | 5:2       | 079 099 113                     | 0.5024 | 34-35; 245-24; 236-35                                       | 0.359             | 0.312           |
| 55                               | 23.39             | 5:2 6:4   | 119 150                         | 0.5085 | 246-34; 236-246   | 0.017             | 0.015           |
| 56                               | 23.49             | 5:2       | 078 083 112 108                 | 0.5107 | 345-3; 235-23; 2356-3; 2346-3                               | 0.134             | 0.116           |
| 57                               | 23.70             | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 0.391             | 0.340           |
| 58                               | 23.87             | 5:2       | 081 087 117 125 115 145         | 0.5189 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.779             | 0.677           |
| 59                               | 24.02             | 5:2       | 116 085 111                     | 0.5222 | 23456; 234-24; 235-35                                       | 0.348             | 0.303           |
| 60                               | 24.16             | 6:4       | 120 136                         | 0.5252 | 245-35; 236-236   | 0.422             | 0.332           |
| 61                               | 24.28             | 5:2       | 077 110 148                     | 0.5278 | 34-34; 236-34; 235-246                                      | 1.300             | 1.129           |
| 62                               | 24.57             | 6:3       | 154                             |        | 245-246   | -                 | -               |
| 63                               | 24.65             | 5:2       | 082                             | 0.5359 | 234-23  | 0.299             | 0.259           |
| 64                               | 24.94             | 6:3       | 151                             | 0.5422 | 2356-25   | 1.028             | 0.808           |
| 65                               | 25.08             | 5:1 6:3   | 124 135                         | 0.5452 | 345-25; 235-236   | 0.171             | 0.138           |
| 66                               | 25.14             | 6:3       | 144                             | 0.5465 | 2346-25   | 0.325             | 0.256           |
| 67                               | 25.19             | 5:1 6:3   | 107 109 147                     | 0.5476 | 234-35; 235-34; 2356-24                                     | 0.097             | 0.082           |
| 68                               | 25.29             | 5:1       | 123                             | 0.5498 | 345-24  | 0.031             | 0.027           |
| 69                               | 25.39             | 5:1 6:3   | 106 118 139 149                 | 0.5520 | 2345-3; 245-34; 2346-24; 236-245                            | 2.207             | 1.855           |
| 70                               | 25.52             | 6:3       | 140                             |        | 234-246   | -                 | -               |
| 71                               | 25.78             | 5:1 6:3   | 114 134 143                     | 0.5604 | 2345-4; 2356-23; 2345-26                                    | 0.111             | 0.090           |
| 72                               | 25.97             | 5:1 6:3   | 122 131 133 142                 | 0.5646 | 345-23; 2346-23; 235-235; 23456-2                           | 0.010             | 0.008           |
| 73                               | 26.26             | 6:2       | 146 165 188                     | 0.5709 | 235-245; 2356-35; 2356-246                                  | 0.189             | 0.148           |
| 74                               | 26.39             | 5:1 6:3   | 105 132 161                     | 0.5737 | 234-34; 234-236; 2346-35                                    | 0.732             | 0.597           |
| 75                               | 26.54             | 6:2       | 153                             | 0.5770 | 245-245   | 1.432             | 1.125           |
| 76                               | 26.65             | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -                 | -               |
| 77                               | 27.07             | 6:2       | 141                             | 0.5885 | 2345-25   | 0.860             | 0.676           |
| 78                               | 27.14             | 7:4       | 179                             | 0.5900 | 2356-236  | 1.086             | 0.780           |
| 79                               | 27.35             | 6:2       | 137                             | 0.5946 | 2345-24   | 0.079             | 0.062           |
| 80                               | 27.50             | 6:2 7:4   | 130 176                         | 0.5978 | 234-235; 2346-236   | 0.170             | 0.133           |
| 82                               | 27.72             | 6:2       | 138 163 164                     | 0.6026 | 234-245; 2356-34; 236-345                                   | 1.222             | 0.961           |
| 83                               | 27.89             | 6:2       | 158 160 186                     | 0.6063 | 2346-34; 23456-3; 23456-26                                  | 0.109             | 0.086           |
| 84                               | 28.09             | 6:2       | 126 129                         | 0.6107 | 345-34; 2345-23   | 0.010             | 0.008           |
| 85                               | 28.43             | 7:3       | 166 178                         | 0.6180 | 23456-4; 2356-235   | 0.743             | 0.533           |
| 87                               | 28.73             | 7:3       | 175 159                         | 0.6246 | 2346-235; 2345-35   | 0.136             | 0.097           |
| 88                               | 28.87             | 7:3       | 182 187                         | 0.6276 | 2345-246; 2356-245  | 2.191             | 1.572           |
| 89                               | 28.99             | 6:2       | 128 162                         | 0.6302 | 234-234; 235-345  | 0.054             | 0.042           |
| 90                               | 29.17             | 7:3       | 183                             | 0.6341 | 2346-245  | 0.969             | 0.696           |
| 91                               | 29.44             | 6:1       | 167                             | 0.6400 | 245-345   | 0.043             | 0.033           |
| 92                               | 29.77             | 7:3       | 185                             | 0.6472 | 23456-25  | 0.297             | 0.214           |
| 93                               | 30.14             | 7:3       | 174 181                         | 0.6552 | 2345-236; 23456-24  | 2.004             | 1.442           |
| 94                               | 30.41             | 7:3       | 177                             | 0.6611 | 2356-234  | 1.034             | 0.744           |
| 95                               | 30.71             | 6:1 7:3   | 156 171                         | 0.6676 | 2345-34; 2346-234   | 0.423             | 0.314           |
| 96                               | 30.97             | 8:4       | 157 202                         | 0.6733 | 234-345; 2356-2356  | 0.050             | 0.033           |
| 98                               | 31.14             | 7:3       | 173                             | 0.6770 | 23456-23  | 0.030             | 0.022           |
| 99                               | 31.50             | 8:4       | 201                             | 0.6848 | 2346-2356   | 0.269             | 0.177           |
| 100                              | 31.73             | 7:2       | 172 204                         | 0.6898 | 2345-235; 23456-246   | 0.313             | 0.224           |
| 101                              | 32.02             | 8:4       | 192 197                         | 0.6961 | 23456-35; 2346-2346   | 0.106             | 0.070           |
| 102                              | 32.20             | 7:2       | 180                             | 0.7000 | 2345-245  | 3.154             | 2.264           |
| 103                              | 32.44             | 7:2       | 193                             | 0.7052 | 2356-345  | 0.253             | 0.181           |
| 104                              | 32.76             | 7:2       | 191                             | 0.7122 | 2346-345  | 0.066             | 0.047           |
| 105                              | 33.11             | 8:4       | 200 169                         | 0.7198 | 23456-236; 345-345  | 0.303             | 0.200           |
| 106                              | 34.24             | 7:2       | 170                             | 0.7443 | 2345-234  | 0.783             | 0.562           |

| DB-1 Peak <sup>1</sup><br>Number | Retention<br>Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight<br>Percent | Mole<br>Percent |
|----------------------------------|-------------------|-----------|----------------------|--------|------------------------|-------------------|-----------------|
| 107                              | 34.48             | 7:2       | <b>190</b>           | 0.7496 | 23456-34               | 0.218             | 0.157           |
| 108                              | 35.33             | 8:3       | <b>198</b>           | 0.7680 | 23456-235              | 0.094             | 0.062           |
| 109                              | 35.59             | 8:3       | <b>199</b>           | 0.7737 | 2345-2356              | 2.756             | 1.819           |
| 110                              | 36.11             | 8:3       | <b>196 203</b>       | 0.7850 | 2345-2346; 23456-245   | 2.485             | 1.640           |
| 111                              | 37.25             | 7:1       | <b>189</b>           | 0.8098 | 2345-345               | 0.026             | 0.019           |
| 112                              | 38.80             | 8:3       | <b>195</b>           | 0.8435 | 23456-234              | 0.323             | 0.213           |
| 113                              | 39.29             | 9:4       | <b>208</b>           | 0.8541 | 23456-2356             | 0.231             | 0.141           |
| 114                              | 40.25             | 9:4       | <b>207</b>           | 0.8750 | 23456-2346             | 0.074             | 0.045           |
| 115                              | 41.60             | 8:2       | <b>194</b>           | 0.9043 | 2345-2345              | 0.916             | 0.605           |
| 116                              | 42.49             | 8:2       | <b>205</b>           | 0.9237 | 23456-345              | 0.059             | 0.039           |
| 117                              | 47.52             | 9:3       | <b>206</b>           | 1.033  | 23456-2345             | 0.409             | 0.250           |
| 118                              | 53.53             | 10:4      | <b>209</b>           | 1.164  | 23456-23456            | 0.002             | 0.001           |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 126 ng/mL

Total Nanomoles = 0.444

Average Molecular Weight = 283.7

Number of Calibrated Peaks Found = 102

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <i>77</i>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <i>122</i>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105 ( <b>200</b> ,169)                                   | <i>169</i>                  |



|                    |                     |                 |                     |
|--------------------|---------------------|-----------------|---------------------|
| Sample Name:       | CCCS0610A           | Sample Amount:  | 1                   |
| Sample ID:         | CCC Std 122 ng/mL   | Dilution:       | 1                   |
| Date Acquired:     | 06/10/2015 17:09:59 | Extract Volume: | 1                   |
| Project Name:      | GC24_Jan_2015       | Date Processed: | 06/10/2015 18:18:31 |
| Sample Set Name:   | GC24_061015d        | User Name:      | Amie Hamilton       |
| Processing Method: | CSGB_LL1X_012015    | Current Time:   | 09:30:35            |
| Run Time:          | 60 Minutes          | Current Date:   | 6/23/2015           |
| Report Name:       | CSGB_ChkStd_ng_mL   | LIMS File ID:   | GC24-1177-3         |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 719              | 8.505                     | 8.505                    |
| 2  | 4 (3)                             | 12.80              | 319              | 6.799                     | 6.799                    |
| 3  | 5 (4,10)                          | 13.40              | 404              | 2.210                     | 2.210                    |
| 4  | 6 (7,9)                           | 14.26              | 1033             | 0.830                     | 0.830                    |
| 5  | 7 (6)                             | 14.57              | 808              | 1.292                     | 1.292                    |
| 6  | 8 (5,8)                           | 14.75              | 3547             | 10.958                    | 10.958                   |
| 7  | 10 (19)                           | 15.40              | 233              | 0.256                     | 0.256                    |
| 8  | 13 (12,13)                        | 16.11              | 178              | 0.185                     | 0.185                    |
| 9  | 14 (15,18)                        | 16.25              | 3396             | 3.195                     | 3.195                    |
| 10 | 15 (17)                           | 16.33              | 1462             | 3.054                     | 3.054                    |
| 11 | 16 (24,27)                        | 16.63              | 297              | 0.206                     | 0.206                    |
| 12 | 17 (16,32)                        | 16.89              | 2792             | 3.267                     | 3.267                    |
| 13 | 19 (23,34,54)                     | 17.33              | 22               | 0.021                     | 0.021                    |
| 14 | 20 (29)                           | 17.51              | 71               | 0.066                     | 0.066                    |
| 15 | 21 (26)                           | 17.64              | 725              | 0.700                     | 0.700                    |
| 16 | 22 (25)                           | 17.72              | 366              | 0.282                     | 0.282                    |
| 17 | 23 (31)                           | 17.92              | 4557             | 3.340                     | 3.340                    |
| 18 | 24 (28,50)                        | 17.97              | 5300             | 3.444                     | 3.444                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 3990             | 3.395                     | 3.395                    |
| 20 | 26 (22,51)                        | 18.55              | 2581             | 2.387                     | 2.387                    |
| 21 | 27 (45)                           | 18.79              | 991              | 0.807                     | 0.807                    |
| 22 | 29 (46)                           | 19.06              | 379              | 0.347                     | 0.347                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4358             | 4.396                     | 4.396                    |
| 24 | 32 (43,49)                        | 19.51              | 3591             | 1.850                     | 1.850                    |
| 25 | 33 (38,47)                        | 19.63              | 1663             | 0.615                     | 0.615                    |
| 26 | 34 (48,75)                        | 19.69              | 1573             | 0.840                     | 0.840                    |
| 27 | 36 (35)                           | 19.89              | 118              | 0.146                     | 0.146                    |
| 28 | 37 (104,44)                       | 20.09              | 5238             | 3.491                     | 3.491                    |
| 29 | 38 (37,42,59)                     | 20.22              | 2968             | 2.552                     | 2.552                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 5820             | 3.088                     | 3.088                    |
| 31 | 41 (68,96)                        | 20.74              | 67               | 0.055                     | 0.055                    |
| 32 | 42 (40)                           | 20.83              | 1262             | 0.838                     | 0.838                    |
| 33 | 43 (57,103)                       | 21.10              | 82               | 0.050                     | 0.050                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.24 | 152  | 0.069 | 0.069 |
| 35 | 45 (63)                | 21.40 | 296  | 0.150 | 0.150 |
| 36 | 46 (74,94,61)          | 21.57 | 3259 | 1.160 | 1.160 |
| 37 | 47 (70)                | 21.70 | 6072 | 2.709 | 2.709 |
| 38 | 48 (66,76,98,80,93,95, | 21.82 | 7920 | 5.322 | 5.322 |
| 39 | 49 (55,91,121)         | 22.12 | 706  | 0.454 | 0.454 |
| 40 | 50 (56,60)             | 22.42 | 5976 | 2.748 | 2.748 |
| 41 | 51 (84,92,155)         | 22.67 | 1488 | 1.757 | 1.757 |
| 42 | 52 (89)                | 22.78 | 104  | 0.069 | 0.069 |
| 43 | 53 (90,101)            | 22.92 | 2656 | 1.391 | 1.391 |
| 44 | 54 (79,99,113)         | 23.11 | 1391 | 0.486 | 0.486 |
| 45 | 55 (119,150)           | 23.40 | 80   | 0.020 | 0.020 |
| 46 | 56 (78,83,112,108)     | 23.49 | 247  | 0.153 | 0.153 |
| 47 | 57 (97,152,86)         | 23.70 | 1230 | 0.516 | 0.516 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 2089 | 1.022 | 1.022 |
| 49 | 59 (116,85,111)        | 24.02 | 1131 | 0.461 | 0.461 |
| 50 | 60 (120,136)           | 24.16 | 1137 | 0.544 | 0.544 |
| 51 | 61 (77,110,148)        | 24.28 | 3160 | 1.736 | 1.736 |
| 52 | 63 (82)                | 24.65 | 841  | 0.389 | 0.389 |
| 53 | 64 (151)               | 24.94 | 2922 | 1.402 | 1.402 |
| 54 | 65 (124,135)           | 25.08 | 754  | 0.216 | 0.216 |
| 55 | 66 (144)               | 25.13 | 532  | 0.446 | 0.446 |
| 56 | 67 (107,109,147)       | 25.18 | 181  | 0.105 | 0.105 |
| 57 | 68 (123)               | 25.27 | 58   | 0.027 | 0.027 |
| 58 | 69 (106,118,139,149)   | 25.39 | 6812 | 2.948 | 2.948 |
| 59 | 71 (114,134,143)       | 25.78 | 296  | 0.138 | 0.138 |
| 60 | 72 (122,131,133,142)   | 25.96 | 41   | 0.013 | 0.013 |
| 61 | 73 (146,165,188)       | 26.26 | 612  | 0.270 | 0.270 |
| 62 | 74 (105,132,161)       | 26.38 | 3030 | 1.013 | 1.013 |
| 63 | 75 (153)               | 26.53 | 5711 | 1.970 | 1.970 |
| 64 | 77 (141)               | 27.06 | 1959 | 1.199 | 1.199 |
| 65 | 78 (179)               | 27.14 | 2951 | 1.373 | 1.373 |
| 66 | 79 (137)               | 27.33 | 22   | 0.033 | 0.033 |
| 67 | 80 (130,176)           | 27.49 | 826  | 0.207 | 0.207 |
| 68 | 82 (138,163,164)       | 27.71 | 4363 | 1.653 | 1.653 |
| 69 | 83 (158,160,186)       | 27.88 | 366  | 0.144 | 0.144 |
| 70 | 84 (126,129)           | 28.10 | 74   | 0.010 | 0.010 |
| 71 | 85 (166,178)           | 28.43 | 1322 | 1.013 | 1.013 |
| 72 | 87 (175,159)           | 28.73 | 213  | 0.163 | 0.163 |
| 73 | 88 (182,187)           | 28.87 | 7844 | 3.018 | 3.018 |
| 74 | 89 (128,162)           | 29.00 | 179  | 0.055 | 0.055 |
| 75 | 90 (183)               | 29.17 | 3153 | 1.315 | 1.315 |
| 76 | 91 (167)               | 29.44 | 40   | 0.025 | 0.025 |
| 77 | 92 (185)               | 29.77 | 1363 | 0.397 | 0.397 |
| 78 | 93 (174,181)           | 30.14 | 6602 | 2.620 | 2.620 |
| 79 | 94 (177)               | 30.41 | 2994 | 1.364 | 1.364 |
| 80 | 95 (156,171)           | 30.70 | 1232 | 0.554 | 0.554 |
| 81 | 96 (157,202)           | 30.96 | 1135 | 0.070 | 0.070 |
| 82 | 98 (173)               | 31.15 | 115  | 0.048 | 0.048 |
| 83 | 99 (201)               | 31.49 | 810  | 0.367 | 0.367 |
| 84 | 100 (172,204)          | 31.73 | 848  | 0.431 | 0.431 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.07 | 235   | 0.186   | 0.186   |
| 86  | 102 (180)     | 32.20 | 12553 | 4.294   | 4.294   |
| 87  | 103 (193)     | 32.43 | 632   | 0.330   | 0.330   |
| 88  | 104 (191)     | 32.75 | 145   | 0.074   | 0.074   |
| 89  | 105 (200,169) | 33.11 | 984   | 0.403   | 0.403   |
| 90  | 106 (170)     | 34.24 | 4209  | 0.946   | 0.946   |
| 91  | 107 (190)     | 34.49 | 1002  | 0.298   | 0.298   |
| 92  | 108 (198)     | 35.35 | 419   | 0.140   | 0.140   |
| 93  | 109 (199)     | 35.58 | 6272  | 3.789   | 3.789   |
| 94  | 110 (196,203) | 36.11 | 6279  | 3.390   | 3.390   |
| 95  | 111 (189)     | 37.23 | 53    | 0.014   | 0.014   |
| 96  | 112 (195)     | 38.78 | 1998  | 0.422   | 0.422   |
| 97  | 113 (208)     | 39.30 | 431   | 0.292   | 0.292   |
| 98  | 114 (207)     | 40.20 | 219   | 0.079   | 0.079   |
| 99  | 115 (194)     | 41.59 | 4782  | 1.199   | 1.199   |
| 100 | 116 (205)     | 42.45 | 202   | 0.077   | 0.077   |
| 101 | 117 (206)     | 47.52 | 1857  | 0.534   | 0.534   |
| 102 | 118 (209)     | 53.54 | 25    | 0.011   | 0.011   |
| 103 | Sum           |       |       | 135.706 | 135.706 |



|                    |                     |                 |                     |
|--------------------|---------------------|-----------------|---------------------|
| Sample Name:       | CCCS0610B           | Sample Amount:  | 1                   |
| Sample ID:         | CCC Std 122 ng/mL   | Dilution:       | 1                   |
| Date Acquired:     | 06/10/2015 22:17:24 | Extract Volume: | 1                   |
| Project Name:      | GC24_Jan_2015       | Date Processed: | 06/17/2015 15:48:55 |
| Sample Set Name:   | GC24_061015d        | User Name:      | Amie Hamilton       |
| Processing Method: | CSGB_LL1X_012015    | Current Time:   | 09:30:40            |
| Run Time:          | 60 Minutes          | Current Date:   | 6/23/2015           |
| Report Name:       | CSGB_ChkStd_ng_mL   | LIMS File ID:   | GC24-1177-7         |

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.68              | 677              | 7.507                     | 7.507                    |
| 2  | 4 (3)                             | 12.80              | 267              | 5.322                     | 5.322                    |
| 3  | 5 (4,10)                          | 13.41              | 496              | 2.550                     | 2.550                    |
| 4  | 6 (7,9)                           | 14.26              | 1005             | 0.756                     | 0.756                    |
| 5  | 7 (6)                             | 14.57              | 811              | 1.215                     | 1.215                    |
| 6  | 8 (5,8)                           | 14.76              | 3601             | 10.422                    | 10.422                   |
| 7  | 10 (19)                           | 15.40              | 263              | 0.272                     | 0.272                    |
| 8  | 13 (12,13)                        | 16.12              | 111              | 0.107                     | 0.107                    |
| 9  | 14 (15,18)                        | 16.25              | 3383             | 2.982                     | 2.982                    |
| 10 | 15 (17)                           | 16.34              | 1427             | 2.795                     | 2.795                    |
| 11 | 16 (24,27)                        | 16.64              | 318              | 0.207                     | 0.207                    |
| 12 | 17 (16,32)                        | 16.89              | 2655             | 2.914                     | 2.914                    |
| 13 | 19 (23,34,54)                     | 17.33              | 20               | 0.018                     | 0.018                    |
| 14 | 20 (29)                           | 17.50              | 28               | 0.024                     | 0.024                    |
| 15 | 21 (26)                           | 17.64              | 748              | 0.677                     | 0.677                    |
| 16 | 22 (25)                           | 17.73              | 488              | 0.353                     | 0.353                    |
| 17 | 23 (31)                           | 17.92              | 4623             | 3.175                     | 3.175                    |
| 18 | 24 (28,50)                        | 17.97              | 5246             | 3.193                     | 3.193                    |
| 19 | 25 (20,21,33,53)                  | 18.33              | 4071             | 3.248                     | 3.248                    |
| 20 | 26 (22,51)                        | 18.56              | 2523             | 2.187                     | 2.187                    |
| 21 | 27 (45)                           | 18.79              | 950              | 0.725                     | 0.725                    |
| 22 | 29 (46)                           | 19.07              | 390              | 0.335                     | 0.335                    |
| 23 | 31 (52,69,73)                     | 19.36              | 4312             | 4.076                     | 4.076                    |
| 24 | 32 (43,49)                        | 19.52              | 3577             | 1.726                     | 1.726                    |
| 25 | 33 (38,47)                        | 19.63              | 1693             | 0.587                     | 0.587                    |
| 26 | 34 (48,75)                        | 19.70              | 1561             | 0.781                     | 0.781                    |
| 27 | 36 (35)                           | 19.91              | 109              | 0.126                     | 0.126                    |
| 28 | 37 (104,44)                       | 20.09              | 5335             | 3.332                     | 3.332                    |
| 29 | 38 (37,42,59)                     | 20.22              | 2914             | 2.350                     | 2.350                    |
| 30 | 39 (41,64,71,72)                  | 20.57              | 5726             | 2.847                     | 2.847                    |
| 31 | 41 (68,96)                        | 20.73              | 114              | 0.088                     | 0.088                    |
| 32 | 42 (40)                           | 20.83              | 1279             | 0.795                     | 0.795                    |
| 33 | 43 (57,103)                       | 21.09              | 134              | 0.076                     | 0.076                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.24 | 226  | 0.097 | 0.097 |
| 35 | 45 (63)                | 21.40 | 288  | 0.137 | 0.137 |
| 36 | 46 (74,94,61)          | 21.57 | 3189 | 1.062 | 1.062 |
| 37 | 47 (70)                | 21.71 | 6049 | 2.529 | 2.529 |
| 38 | 48 (66,76,98,80,93,95, | 21.82 | 7928 | 4.991 | 4.991 |
| 39 | 49 (55,91,121)         | 22.13 | 728  | 0.439 | 0.439 |
| 40 | 50 (56,60)             | 22.43 | 6113 | 2.634 | 2.634 |
| 41 | 51 (84,92,155)         | 22.67 | 1501 | 1.661 | 1.661 |
| 42 | 52 (89)                | 22.78 | 140  | 0.087 | 0.087 |
| 43 | 53 (90,101)            | 22.92 | 2666 | 1.309 | 1.309 |
| 44 | 54 (79,99,113)         | 23.11 | 1444 | 0.472 | 0.472 |
| 45 | 55 (119,150)           | 23.39 | 45   | 0.011 | 0.011 |
| 46 | 56 (78,83,112,108)     | 23.49 | 200  | 0.116 | 0.116 |
| 47 | 57 (97,152,86)         | 23.70 | 1204 | 0.474 | 0.474 |
| 48 | 58 (81,87,117,125,115  | 23.88 | 2078 | 0.952 | 0.952 |
| 49 | 59 (116,85,111)        | 24.03 | 1117 | 0.426 | 0.426 |
| 50 | 60 (120,136)           | 24.16 | 1173 | 0.526 | 0.526 |
| 51 | 61 (77,110,148)        | 24.28 | 3167 | 1.630 | 1.630 |
| 52 | 63 (82)                | 24.65 | 876  | 0.380 | 0.380 |
| 53 | 64 (151)               | 24.94 | 2968 | 1.335 | 1.335 |
| 54 | 65 (124,135)           | 25.08 | 830  | 0.223 | 0.223 |
| 55 | 66 (144)               | 25.13 | 499  | 0.392 | 0.392 |
| 56 | 67 (107,109,147)       | 25.19 | 193  | 0.105 | 0.105 |
| 57 | 68 (123)               | 25.32 | 71   | 0.031 | 0.031 |
| 58 | 69 (106,118,139,149)   | 25.39 | 6847 | 2.775 | 2.775 |
| 59 | 71 (114,134,143)       | 25.78 | 363  | 0.159 | 0.159 |
| 60 | 72 (122,131,133,142)   | 25.99 | 45   | 0.013 | 0.013 |
| 61 | 73 (146,165,188)       | 26.26 | 556  | 0.230 | 0.230 |
| 62 | 74 (105,132,161)       | 26.39 | 3011 | 0.944 | 0.944 |
| 63 | 75 (153)               | 26.54 | 5714 | 1.846 | 1.846 |
| 64 | 77 (141)               | 27.07 | 1960 | 1.125 | 1.125 |
| 65 | 78 (179)               | 27.14 | 3014 | 1.315 | 1.315 |
| 66 | 79 (137)               | 27.37 | 30   | 0.042 | 0.042 |
| 67 | 80 (130,176)           | 27.50 | 868  | 0.204 | 0.204 |
| 68 | 82 (138,163,164)       | 27.72 | 4446 | 1.579 | 1.579 |
| 69 | 83 (158,160,186)       | 27.89 | 363  | 0.133 | 0.133 |
| 70 | 84 (126,129)           | 28.09 | 88   | 0.011 | 0.011 |
| 71 | 85 (166,178)           | 28.43 | 1349 | 0.970 | 0.970 |
| 72 | 87 (175,159)           | 28.74 | 259  | 0.186 | 0.186 |
| 73 | 88 (182,187)           | 28.88 | 7793 | 2.808 | 2.808 |
| 74 | 89 (128,162)           | 29.00 | 232  | 0.067 | 0.067 |
| 75 | 90 (183)               | 29.18 | 3188 | 1.246 | 1.246 |
| 76 | 91 (167)               | 29.44 | 87   | 0.050 | 0.050 |
| 77 | 92 (185)               | 29.78 | 1309 | 0.357 | 0.357 |
| 78 | 93 (174,181)           | 30.15 | 6841 | 2.544 | 2.544 |
| 79 | 94 (177)               | 30.41 | 3133 | 1.338 | 1.338 |
| 80 | 95 (156,171)           | 30.70 | 1261 | 0.532 | 0.532 |
| 81 | 96 (157,202)           | 30.96 | 1054 | 0.061 | 0.061 |
| 82 | 98 (173)               | 31.13 | 29   | 0.011 | 0.011 |
| 83 | 99 (201)               | 31.50 | 805  | 0.341 | 0.341 |
| 84 | 100 (172,204)          | 31.74 | 817  | 0.390 | 0.390 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.03 | 193   | 0.143   | 0.143   |
| 86  | 102 (180)     | 32.20 | 12628 | 4.048   | 4.048   |
| 87  | 103 (193)     | 32.45 | 549   | 0.269   | 0.269   |
| 88  | 104 (191)     | 32.74 | 173   | 0.083   | 0.083   |
| 89  | 105 (200,169) | 33.12 | 926   | 0.356   | 0.356   |
| 90  | 106 (170)     | 34.24 | 4395  | 0.926   | 0.926   |
| 91  | 107 (190)     | 34.48 | 1044  | 0.291   | 0.291   |
| 92  | 108 (198)     | 35.34 | 290   | 0.090   | 0.090   |
| 93  | 109 (199)     | 35.58 | 6159  | 3.489   | 3.489   |
| 94  | 110 (196,203) | 36.12 | 6340  | 3.208   | 3.208   |
| 95  | 111 (189)     | 37.22 | 30    | 0.007   | 0.007   |
| 96  | 112 (195)     | 38.80 | 1948  | 0.386   | 0.386   |
| 97  | 113 (208)     | 39.31 | 405   | 0.257   | 0.257   |
| 98  | 114 (207)     | 40.23 | 203   | 0.069   | 0.069   |
| 99  | 115 (194)     | 41.60 | 4871  | 1.145   | 1.145   |
| 100 | 116 (205)     | 42.44 | 208   | 0.074   | 0.074   |
| 101 | 117 (206)     | 47.56 | 1503  | 0.406   | 0.406   |
| 102 | 118 (209)     | 53.56 | 7     | 0.003   | 0.003   |
| 103 | Sum           |       |       | 126.313 | 126.313 |



Sample Name: CCCS0610C Sample Amount: 1  
 Sample ID: CCC Std 122 ng/mL Dilution: 1  
 Date Acquired: 06/11/2015 00:28:48 Extract Volume: 1  
 Project Name: GC24\_Jan\_2015 Date Processed: 06/11/2015 18:29:32  
 Sample Set Name: GC24\_061015d User Name: Amie Hamilton  
 Processing Method: CSGB\_LL1X\_012015 Current Time: 09:30:44  
 Run Time: 60 Minutes Current Date: 6/23/2015  
 Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-1177-9

Peak Results

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 710              | 7.559                     | 7.559                    |
| 2  | 4 (3)                             | 12.80              | 350              | 6.714                     | 6.714                    |
| 3  | 5 (4,10)                          | 13.40              | 404              | 1.987                     | 1.987                    |
| 4  | 6 (7,9)                           | 14.26              | 1032             | 0.746                     | 0.746                    |
| 5  | 7 (6)                             | 14.57              | 840              | 1.209                     | 1.209                    |
| 6  | 8 (5,8)                           | 14.76              | 3645             | 10.138                    | 10.138                   |
| 7  | 10 (19)                           | 15.39              | 224              | 0.222                     | 0.222                    |
| 8  | 13 (12,13)                        | 16.11              | 175              | 0.164                     | 0.164                    |
| 9  | 14 (15,18)                        | 16.25              | 3529             | 2.990                     | 2.990                    |
| 10 | 15 (17)                           | 16.33              | 1500             | 2.824                     | 2.824                    |
| 11 | 16 (24,27)                        | 16.63              | 297              | 0.186                     | 0.186                    |
| 12 | 17 (16,32)                        | 16.89              | 2852             | 3.008                     | 3.008                    |
| 13 | 19 (23,34,54)                     | 17.36              | 38               | 0.032                     | 0.032                    |
| 14 | 20 (29)                           | 17.50              | 60               | 0.051                     | 0.051                    |
| 15 | 21 (26)                           | 17.64              | 728              | 0.633                     | 0.633                    |
| 16 | 22 (25)                           | 17.73              | 410              | 0.284                     | 0.284                    |
| 17 | 23 (31)                           | 17.92              | 4877             | 3.220                     | 3.220                    |
| 18 | 24 (28,50)                        | 17.97              | 5315             | 3.108                     | 3.108                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 4034             | 3.094                     | 3.094                    |
| 20 | 26 (22,51)                        | 18.55              | 2609             | 2.173                     | 2.173                    |
| 21 | 27 (45)                           | 18.78              | 1032             | 0.757                     | 0.757                    |
| 22 | 29 (46)                           | 19.06              | 374              | 0.309                     | 0.309                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4500             | 4.088                     | 4.088                    |
| 24 | 32 (43,49)                        | 19.52              | 3690             | 1.711                     | 1.711                    |
| 25 | 33 (38,47)                        | 19.63              | 1782             | 0.594                     | 0.594                    |
| 26 | 34 (48,75)                        | 19.69              | 1613             | 0.775                     | 0.775                    |
| 27 | 36 (35)                           | 19.89              | 92               | 0.102                     | 0.102                    |
| 28 | 37 (104,44)                       | 20.09              | 5486             | 3.293                     | 3.293                    |
| 29 | 38 (37,42,59)                     | 20.22              | 3066             | 2.376                     | 2.376                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 6073             | 2.902                     | 2.902                    |
| 31 | 41 (68,96)                        | 20.73              | 87               | 0.065                     | 0.065                    |
| 32 | 42 (40)                           | 20.83              | 1352             | 0.809                     | 0.809                    |
| 33 | 43 (57,103)                       | 21.05              | 64               | 0.035                     | 0.035                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.24 | 217  | 0.090 | 0.090 |
| 35 | 45 (63)                | 21.40 | 317  | 0.145 | 0.145 |
| 36 | 46 (74,94,61)          | 21.57 | 3343 | 1.070 | 1.070 |
| 37 | 47 (70)                | 21.70 | 6330 | 2.544 | 2.544 |
| 38 | 48 (66,76,98,80,93,95, | 21.81 | 8163 | 4.938 | 4.938 |
| 39 | 49 (55,91,121)         | 22.12 | 721  | 0.418 | 0.418 |
| 40 | 50 (56,60)             | 22.42 | 6416 | 2.657 | 2.657 |
| 41 | 51 (84,92,155)         | 22.67 | 1516 | 1.612 | 1.612 |
| 42 | 52 (89)                | 22.78 | 141  | 0.084 | 0.084 |
| 43 | 53 (90,101)            | 22.91 | 2762 | 1.303 | 1.303 |
| 44 | 54 (79,99,113)         | 23.11 | 1429 | 0.450 | 0.450 |
| 45 | 55 (119,150)           | 23.39 | 127  | 0.029 | 0.029 |
| 46 | 56 (78,83,112,108)     | 23.49 | 278  | 0.155 | 0.155 |
| 47 | 57 (97,152,86)         | 23.70 | 1199 | 0.453 | 0.453 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 2158 | 0.951 | 0.951 |
| 49 | 59 (116,85,111)        | 24.02 | 1166 | 0.428 | 0.428 |
| 50 | 60 (120,136)           | 24.16 | 1194 | 0.514 | 0.514 |
| 51 | 61 (77,110,148)        | 24.28 | 3304 | 1.635 | 1.635 |
| 52 | 63 (82)                | 24.65 | 882  | 0.368 | 0.368 |
| 53 | 64 (151)               | 24.94 | 3008 | 1.300 | 1.300 |
| 54 | 65 (124,135)           | 25.08 | 756  | 0.195 | 0.195 |
| 55 | 66 (144)               | 25.13 | 607  | 0.459 | 0.459 |
| 56 | 67 (107,109,147)       | 25.19 | 178  | 0.093 | 0.093 |
| 57 | 68 (123)               | 25.32 | 66   | 0.028 | 0.028 |
| 58 | 69 (106,118,139,149)   | 25.39 | 7090 | 2.762 | 2.762 |
| 59 | 71 (114,134,143)       | 25.78 | 340  | 0.143 | 0.143 |
| 60 | 72 (122,131,133,142)   | 25.97 | 39   | 0.011 | 0.011 |
| 61 | 73 (146,165,188)       | 26.26 | 582  | 0.231 | 0.231 |
| 62 | 74 (105,132,161)       | 26.38 | 3072 | 0.925 | 0.925 |
| 63 | 75 (153)               | 26.53 | 5843 | 1.813 | 1.813 |
| 64 | 77 (141)               | 27.06 | 1919 | 1.060 | 1.060 |
| 65 | 78 (179)               | 27.14 | 3072 | 1.288 | 1.288 |
| 66 | 79 (137)               | 27.40 | 39   | 0.053 | 0.053 |
| 67 | 80 (130,176)           | 27.49 | 857  | 0.194 | 0.194 |
| 68 | 82 (138,163,164)       | 27.71 | 4546 | 1.551 | 1.551 |
| 69 | 83 (158,160,186)       | 27.89 | 413  | 0.146 | 0.146 |
| 70 | 84 (126,129)           | 28.09 | 83   | 0.010 | 0.010 |
| 71 | 85 (166,178)           | 28.42 | 1377 | 0.951 | 0.951 |
| 72 | 87 (175,159)           | 28.73 | 216  | 0.149 | 0.149 |
| 73 | 88 (182,187)           | 28.87 | 7986 | 2.765 | 2.765 |
| 74 | 89 (128,162)           | 29.00 | 213  | 0.059 | 0.059 |
| 75 | 90 (183)               | 29.17 | 3163 | 1.189 | 1.189 |
| 76 | 91 (167)               | 29.46 | 35   | 0.020 | 0.020 |
| 77 | 92 (185)               | 29.77 | 1424 | 0.373 | 0.373 |
| 78 | 93 (174,181)           | 30.14 | 7053 | 2.521 | 2.521 |
| 79 | 94 (177)               | 30.41 | 3140 | 1.289 | 1.289 |
| 80 | 95 (156,171)           | 30.69 | 1322 | 0.536 | 0.536 |
| 81 | 96 (157,202)           | 30.96 | 1064 | 0.059 | 0.059 |
| 82 | 98 (173)               | 31.12 | 73   | 0.028 | 0.028 |
| 83 | 99 (201)               | 31.50 | 867  | 0.354 | 0.354 |
| 84 | 100 (172,204)          | 31.73 | 835  | 0.383 | 0.383 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.08 | 176   | 0.126   | 0.126   |
| 86  | 102 (180)     | 32.20 | 13002 | 4.005   | 4.005   |
| 87  | 103 (193)     | 32.45 | 570   | 0.268   | 0.268   |
| 88  | 104 (191)     | 32.75 | 129   | 0.059   | 0.059   |
| 89  | 105 (200,169) | 33.11 | 994   | 0.367   | 0.367   |
| 90  | 106 (170)     | 34.23 | 4744  | 0.961   | 0.961   |
| 91  | 107 (190)     | 34.49 | 1078  | 0.289   | 0.289   |
| 92  | 108 (198)     | 35.35 | 346   | 0.104   | 0.104   |
| 93  | 109 (199)     | 35.58 | 6422  | 3.496   | 3.496   |
| 94  | 110 (196,203) | 36.11 | 6560  | 3.190   | 3.190   |
| 95  | 111 (189)     | 37.30 | 8     | 0.001   | 0.001   |
| 96  | 112 (195)     | 38.78 | 2110  | 0.402   | 0.402   |
| 97  | 113 (208)     | 39.28 | 351   | 0.213   | 0.213   |
| 98  | 114 (207)     | 40.21 | 232   | 0.076   | 0.076   |
| 99  | 115 (194)     | 41.59 | 4944  | 1.117   | 1.117   |
| 100 | 116 (205)     | 42.46 | 257   | 0.088   | 0.088   |
| 101 | 117 (206)     | 47.54 | 1793  | 0.465   | 0.465   |
| 102 | 118 (209)     | 53.55 | 19    | 0.008   | 0.008   |
| 103 | Sum           |       |       | 126.171 | 126.171 |



Sample Name: CCCS0611B Sample Amount: 1  
 Sample ID: CCC Std 122 ng/mL Dilution: 1  
 Date Acquired: 06/11/2015 20:01:03 Extract Volume: 1  
 Project Name: GC24\_Jan\_2015 Date Processed: 06/11/2015 21:09:00  
 Sample Set Name: GC24\_061115a User Name: Amie Hamilton  
 Processing Method: CSGB\_LL1X\_012015 Current Time: 09:30:46  
 Run Time: 60 Minutes Current Date: 6/23/2015  
 Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-1178-5

**Peak Results**

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 672              | 7.979                     | 7.979                    |
| 2  | 4 (3)                             | 12.80              | 312              | 6.673                     | 6.673                    |
| 3  | 5 (4,10)                          | 13.40              | 389              | 2.140                     | 2.140                    |
| 4  | 6 (7,9)                           | 14.26              | 956              | 0.771                     | 0.771                    |
| 5  | 7 (6)                             | 14.57              | 772              | 1.241                     | 1.241                    |
| 6  | 8 (5,8)                           | 14.76              | 3362             | 10.430                    | 10.430                   |
| 7  | 10 (19)                           | 15.40              | 220              | 0.243                     | 0.243                    |
| 8  | 13 (12,13)                        | 16.12              | 170              | 0.178                     | 0.178                    |
| 9  | 14 (15,18)                        | 16.25              | 3216             | 3.038                     | 3.038                    |
| 10 | 15 (17)                           | 16.33              | 1364             | 2.861                     | 2.861                    |
| 11 | 16 (24,27)                        | 16.63              | 306              | 0.213                     | 0.213                    |
| 12 | 17 (16,32)                        | 16.90              | 2634             | 3.098                     | 3.098                    |
| 13 | 19 (23,34,54)                     | 17.35              | 23               | 0.022                     | 0.022                    |
| 14 | 20 (29)                           | 17.51              | 35               | 0.033                     | 0.033                    |
| 15 | 21 (26)                           | 17.64              | 692              | 0.671                     | 0.671                    |
| 16 | 22 (25)                           | 17.72              | 395              | 0.306                     | 0.306                    |
| 17 | 23 (31)                           | 17.92              | 4464             | 3.287                     | 3.287                    |
| 18 | 24 (28,50)                        | 17.97              | 4893             | 3.191                     | 3.191                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 3657             | 3.127                     | 3.127                    |
| 20 | 26 (22,51)                        | 18.56              | 2366             | 2.197                     | 2.197                    |
| 21 | 27 (45)                           | 18.78              | 954              | 0.780                     | 0.780                    |
| 22 | 29 (46)                           | 19.07              | 364              | 0.336                     | 0.336                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4117             | 4.170                     | 4.170                    |
| 24 | 32 (43,49)                        | 19.52              | 3367             | 1.741                     | 1.741                    |
| 25 | 33 (38,47)                        | 19.63              | 1614             | 0.600                     | 0.600                    |
| 26 | 34 (48,75)                        | 19.69              | 1511             | 0.810                     | 0.810                    |
| 27 | 36 (35)                           | 19.92              | 77               | 0.096                     | 0.096                    |
| 28 | 37 (104,44)                       | 20.09              | 4996             | 3.344                     | 3.344                    |
| 29 | 38 (37,42,59)                     | 20.22              | 2745             | 2.372                     | 2.372                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 5457             | 2.908                     | 2.908                    |
| 31 | 41 (68,96)                        | 20.73              | 58               | 0.048                     | 0.048                    |
| 32 | 42 (40)                           | 20.83              | 1209             | 0.806                     | 0.806                    |
| 33 | 43 (57,103)                       | 21.07              | 115              | 0.070                     | 0.070                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.24 | 148  | 0.068 | 0.068 |
| 35 | 45 (63)                | 21.39 | 280  | 0.143 | 0.143 |
| 36 | 46 (74,94,61)          | 21.57 | 3040 | 1.086 | 1.086 |
| 37 | 47 (70)                | 21.70 | 5742 | 2.573 | 2.573 |
| 38 | 48 (66,76,98,80,93,95, | 21.82 | 7439 | 5.020 | 5.020 |
| 39 | 49 (55,91,121)         | 22.12 | 655  | 0.423 | 0.423 |
| 40 | 50 (56,60)             | 22.42 | 5740 | 2.651 | 2.651 |
| 41 | 51 (84,92,155)         | 22.67 | 1447 | 1.717 | 1.717 |
| 42 | 52 (89)                | 22.78 | 129  | 0.086 | 0.086 |
| 43 | 53 (90,101)            | 22.92 | 2502 | 1.316 | 1.316 |
| 44 | 54 (79,99,113)         | 23.11 | 1326 | 0.465 | 0.465 |
| 45 | 55 (119,150)           | 23.39 | 63   | 0.016 | 0.016 |
| 46 | 56 (78,83,112,108)     | 23.49 | 237  | 0.147 | 0.147 |
| 47 | 57 (97,152,86)         | 23.70 | 1136 | 0.479 | 0.479 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 1956 | 0.961 | 0.961 |
| 49 | 59 (116,85,111)        | 24.03 | 1077 | 0.441 | 0.441 |
| 50 | 60 (120,136)           | 24.16 | 1090 | 0.523 | 0.523 |
| 51 | 61 (77,110,148)        | 24.28 | 3001 | 1.656 | 1.656 |
| 52 | 63 (82)                | 24.65 | 811  | 0.377 | 0.377 |
| 53 | 64 (151)               | 24.94 | 2747 | 1.324 | 1.324 |
| 54 | 65 (124,135)           | 25.08 | 797  | 0.229 | 0.229 |
| 55 | 66 (144)               | 25.13 | 466  | 0.392 | 0.392 |
| 56 | 67 (107,109,147)       | 25.19 | 193  | 0.113 | 0.113 |
| 57 | 68 (123)               | 25.30 | 84   | 0.039 | 0.039 |
| 58 | 69 (106,118,139,149)   | 25.39 | 6552 | 2.848 | 2.848 |
| 59 | 71 (114,134,143)       | 25.78 | 307  | 0.144 | 0.144 |
| 60 | 72 (122,131,133,142)   | 25.97 | 46   | 0.015 | 0.015 |
| 61 | 73 (146,165,188)       | 26.26 | 578  | 0.256 | 0.256 |
| 62 | 74 (105,132,161)       | 26.38 | 2824 | 0.949 | 0.949 |
| 63 | 75 (153)               | 26.54 | 5367 | 1.858 | 1.858 |
| 64 | 77 (141)               | 27.06 | 1786 | 1.100 | 1.100 |
| 65 | 78 (179)               | 27.14 | 2823 | 1.320 | 1.320 |
| 66 | 79 (137)               | 27.34 | 31   | 0.046 | 0.046 |
| 67 | 80 (130,176)           | 27.50 | 781  | 0.197 | 0.197 |
| 68 | 82 (138,163,164)       | 27.71 | 4040 | 1.537 | 1.537 |
| 69 | 83 (158,160,186)       | 27.89 | 301  | 0.119 | 0.119 |
| 70 | 84 (126,129)           | 28.11 | 53   | 0.007 | 0.007 |
| 71 | 85 (166,178)           | 28.43 | 1220 | 0.940 | 0.940 |
| 72 | 87 (175,159)           | 28.74 | 224  | 0.172 | 0.172 |
| 73 | 88 (182,187)           | 28.87 | 7320 | 2.827 | 2.827 |
| 74 | 89 (128,162)           | 29.00 | 197  | 0.061 | 0.061 |
| 75 | 90 (183)               | 29.18 | 2921 | 1.224 | 1.224 |
| 76 | 91 (167)               | 29.42 | 63   | 0.039 | 0.039 |
| 77 | 92 (185)               | 29.77 | 1265 | 0.370 | 0.370 |
| 78 | 93 (174,181)           | 30.15 | 6350 | 2.531 | 2.531 |
| 79 | 94 (177)               | 30.41 | 2810 | 1.286 | 1.286 |
| 80 | 95 (156,171)           | 30.70 | 1121 | 0.506 | 0.506 |
| 81 | 96 (157,202)           | 30.97 | 1007 | 0.063 | 0.063 |
| 82 | 98 (173)               | 31.15 | 109  | 0.046 | 0.046 |
| 83 | 99 (201)               | 31.50 | 737  | 0.335 | 0.335 |
| 84 | 100 (172,204)          | 31.72 | 749  | 0.383 | 0.383 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.08 | 255   | 0.204   | 0.204   |
| 86  | 102 (180)     | 32.20 | 11932 | 4.100   | 4.100   |
| 87  | 103 (193)     | 32.44 | 654   | 0.343   | 0.343   |
| 88  | 104 (191)     | 32.73 | 142   | 0.072   | 0.072   |
| 89  | 105 (200,169) | 33.11 | 918   | 0.378   | 0.378   |
| 90  | 106 (170)     | 34.23 | 4550  | 1.028   | 1.028   |
| 91  | 107 (190)     | 34.50 | 841   | 0.252   | 0.252   |
| 92  | 108 (198)     | 35.36 | 319   | 0.106   | 0.106   |
| 93  | 109 (199)     | 35.58 | 5785  | 3.512   | 3.512   |
| 94  | 110 (196,203) | 36.11 | 5892  | 3.194   | 3.194   |
| 95  | 111 (189)     | 37.23 | 144   | 0.039   | 0.039   |
| 96  | 112 (195)     | 38.80 | 1910  | 0.405   | 0.405   |
| 97  | 113 (208)     | 39.32 | 338   | 0.229   | 0.229   |
| 98  | 114 (207)     | 40.24 | 229   | 0.083   | 0.083   |
| 99  | 115 (194)     | 41.60 | 4400  | 1.109   | 1.109   |
| 100 | 116 (205)     | 42.46 | 228   | 0.087   | 0.087   |
| 101 | 117 (206)     | 47.56 | 1787  | 0.516   | 0.516   |
| 102 | 118 (209)     | 53.56 | 10    | 0.004   | 0.004   |
| 103 | Sum           |       |       | 128.864 | 128.864 |



Sample Name: CCCS0611C Sample Amount: 1  
Sample ID: CCC Std 122 ng/mL Dilution: 1  
Date Acquired: 06/11/2015 22:21:36 Extract Volume: 1  
Project Name: GC24\_Jan\_2015 Date Processed: 06/11/2015 23:47:19  
Sample Set Name: GC24\_061115a User Name: Amie Hamilton  
Processing Method: CSGB\_LL1X\_012015 Current Time: 09:30:47  
Run Time: 60 Minutes Current Date: 6/23/2015  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-1178-7

Peak Results

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 719              | 7.821                     | 7.821                    |
| 2  | 4 (3)                             | 12.80              | 336              | 6.590                     | 6.590                    |
| 3  | 5 (4,10)                          | 13.41              | 402              | 2.019                     | 2.019                    |
| 4  | 6 (7,9)                           | 14.26              | 1077             | 0.795                     | 0.795                    |
| 5  | 7 (6)                             | 14.57              | 826              | 1.215                     | 1.215                    |
| 6  | 8 (5,8)                           | 14.76              | 3546             | 10.066                    | 10.066                   |
| 7  | 10 (19)                           | 15.40              | 223              | 0.225                     | 0.225                    |
| 8  | 13 (12,13)                        | 16.11              | 155              | 0.148                     | 0.148                    |
| 9  | 14 (15,18)                        | 16.25              | 3523             | 3.047                     | 3.047                    |
| 10 | 15 (17)                           | 16.33              | 1446             | 2.778                     | 2.778                    |
| 11 | 16 (24,27)                        | 16.63              | 334              | 0.213                     | 0.213                    |
| 12 | 17 (16,32)                        | 16.89              | 2855             | 3.074                     | 3.074                    |
| 13 | 19 (23,34,54)                     | 17.32              | 25               | 0.022                     | 0.022                    |
| 14 | 20 (29)                           | 17.49              | 41               | 0.036                     | 0.036                    |
| 15 | 21 (26)                           | 17.64              | 739              | 0.656                     | 0.656                    |
| 16 | 22 (25)                           | 17.72              | 408              | 0.289                     | 0.289                    |
| 17 | 23 (31)                           | 17.92              | 4660             | 3.140                     | 3.140                    |
| 18 | 24 (28,50)                        | 17.97              | 5418             | 3.236                     | 3.236                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 3963             | 3.102                     | 3.102                    |
| 20 | 26 (22,51)                        | 18.56              | 2528             | 2.149                     | 2.149                    |
| 21 | 27 (45)                           | 18.79              | 1009             | 0.755                     | 0.755                    |
| 22 | 29 (46)                           | 19.06              | 407              | 0.343                     | 0.343                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4446             | 4.123                     | 4.123                    |
| 24 | 32 (43,49)                        | 19.52              | 3656             | 1.731                     | 1.731                    |
| 25 | 33 (38,47)                        | 19.63              | 1772             | 0.603                     | 0.603                    |
| 26 | 34 (48,75)                        | 19.69              | 1574             | 0.773                     | 0.773                    |
| 27 | 36 (35)                           | 19.91              | 39               | 0.045                     | 0.045                    |
| 28 | 37 (104,44)                       | 20.09              | 5443             | 3.335                     | 3.335                    |
| 29 | 38 (37,42,59)                     | 20.22              | 2951             | 2.335                     | 2.335                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 5941             | 2.898                     | 2.898                    |
| 31 | 41 (68,96)                        | 20.72              | 79               | 0.060                     | 0.060                    |
| 32 | 42 (40)                           | 20.83              | 1294             | 0.789                     | 0.789                    |
| 33 | 43 (57,103)                       | 21.07              | 94               | 0.053                     | 0.053                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.25 | 213  | 0.090 | 0.090 |
| 35 | 45 (63)                | 21.40 | 296  | 0.138 | 0.138 |
| 36 | 46 (74,94,61)          | 21.57 | 3301 | 1.079 | 1.079 |
| 37 | 47 (70)                | 21.70 | 6249 | 2.564 | 2.564 |
| 38 | 48 (66,76,98,80,93,95, | 21.82 | 8079 | 4.990 | 4.990 |
| 39 | 49 (55,91,121)         | 22.12 | 686  | 0.406 | 0.406 |
| 40 | 50 (56,60)             | 22.42 | 6277 | 2.654 | 2.654 |
| 41 | 51 (84,92,155)         | 22.67 | 1533 | 1.664 | 1.664 |
| 42 | 52 (89)                | 22.77 | 125  | 0.076 | 0.076 |
| 43 | 53 (90,101)            | 22.92 | 2701 | 1.300 | 1.300 |
| 44 | 54 (79,99,113)         | 23.11 | 1399 | 0.449 | 0.449 |
| 45 | 55 (119,150)           | 23.39 | 83   | 0.019 | 0.019 |
| 46 | 56 (78,83,112,108)     | 23.49 | 268  | 0.153 | 0.153 |
| 47 | 57 (97,152,86)         | 23.70 | 1212 | 0.468 | 0.468 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 2120 | 0.953 | 0.953 |
| 49 | 59 (116,85,111)        | 24.02 | 1166 | 0.437 | 0.437 |
| 50 | 60 (120,136)           | 24.16 | 1184 | 0.521 | 0.521 |
| 51 | 61 (77,110,148)        | 24.28 | 3235 | 1.634 | 1.634 |
| 52 | 63 (82)                | 24.65 | 883  | 0.376 | 0.376 |
| 53 | 64 (151)               | 24.94 | 2925 | 1.290 | 1.290 |
| 54 | 65 (124,135)           | 25.08 | 789  | 0.208 | 0.208 |
| 55 | 66 (144)               | 25.13 | 580  | 0.448 | 0.448 |
| 56 | 67 (107,109,147)       | 25.20 | 120  | 0.064 | 0.064 |
| 57 | 68 (123)               | 25.32 | 75   | 0.032 | 0.032 |
| 58 | 69 (106,118,139,149)   | 25.39 | 6983 | 2.777 | 2.777 |
| 59 | 71 (114,134,143)       | 25.79 | 297  | 0.128 | 0.128 |
| 60 | 72 (122,131,133,142)   | 25.98 | 45   | 0.013 | 0.013 |
| 61 | 73 (146,165,188)       | 26.26 | 584  | 0.237 | 0.237 |
| 62 | 74 (105,132,161)       | 26.38 | 3044 | 0.936 | 0.936 |
| 63 | 75 (153)               | 26.53 | 5811 | 1.841 | 1.841 |
| 64 | 77 (141)               | 27.07 | 1950 | 1.099 | 1.099 |
| 65 | 78 (179)               | 27.14 | 3059 | 1.309 | 1.309 |
| 66 | 79 (137)               | 27.36 | 50   | 0.068 | 0.068 |
| 67 | 80 (130,176)           | 27.50 | 871  | 0.201 | 0.201 |
| 68 | 82 (138,163,164)       | 27.72 | 4461 | 1.553 | 1.553 |
| 69 | 83 (158,160,186)       | 27.89 | 381  | 0.138 | 0.138 |
| 70 | 84 (126,129)           | 28.08 | 75   | 0.010 | 0.010 |
| 71 | 85 (166,178)           | 28.43 | 1265 | 0.891 | 0.891 |
| 72 | 87 (175,159)           | 28.74 | 207  | 0.146 | 0.146 |
| 73 | 88 (182,187)           | 28.87 | 7787 | 2.752 | 2.752 |
| 74 | 89 (128,162)           | 28.99 | 201  | 0.057 | 0.057 |
| 75 | 90 (183)               | 29.18 | 3065 | 1.175 | 1.175 |
| 76 | 91 (167)               | 29.44 | 89   | 0.050 | 0.050 |
| 77 | 92 (185)               | 29.77 | 1344 | 0.360 | 0.360 |
| 78 | 93 (174,181)           | 30.15 | 6885 | 2.512 | 2.512 |
| 79 | 94 (177)               | 30.41 | 2970 | 1.244 | 1.244 |
| 80 | 95 (156,171)           | 30.70 | 1198 | 0.495 | 0.495 |
| 81 | 96 (157,202)           | 30.96 | 1114 | 0.063 | 0.063 |
| 82 | 98 (173)               | 31.13 | 106  | 0.041 | 0.041 |
| 83 | 99 (201)               | 31.51 | 767  | 0.319 | 0.319 |
| 84 | 100 (172,204)          | 31.73 | 823  | 0.385 | 0.385 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.03 | 133   | 0.097   | 0.097   |
| 86  | 102 (180)     | 32.20 | 12771 | 4.016   | 4.016   |
| 87  | 103 (193)     | 32.44 | 553   | 0.265   | 0.265   |
| 88  | 104 (191)     | 32.73 | 159   | 0.075   | 0.075   |
| 89  | 105 (200,169) | 33.11 | 1011  | 0.381   | 0.381   |
| 90  | 106 (170)     | 34.24 | 4720  | 0.976   | 0.976   |
| 91  | 107 (190)     | 34.49 | 934   | 0.256   | 0.256   |
| 92  | 108 (198)     | 35.38 | 309   | 0.094   | 0.094   |
| 93  | 109 (199)     | 35.58 | 6359  | 3.534   | 3.534   |
| 94  | 110 (196,203) | 36.11 | 6346  | 3.150   | 3.150   |
| 95  | 111 (189)     | 37.27 | 7     | 0.001   | 0.001   |
| 96  | 112 (195)     | 38.80 | 2099  | 0.408   | 0.408   |
| 97  | 113 (208)     | 39.31 | 392   | 0.244   | 0.244   |
| 98  | 114 (207)     | 40.24 | 280   | 0.093   | 0.093   |
| 99  | 115 (194)     | 41.60 | 4927  | 1.137   | 1.137   |
| 100 | 116 (205)     | 42.46 | 230   | 0.080   | 0.080   |
| 101 | 117 (206)     | 47.55 | 1813  | 0.480   | 0.480   |
| 102 | 118 (209)     | 53.54 | 7     | 0.003   | 0.003   |
| 103 | Sum           |       |       | 126.566 | 126.566 |



Sample Name: CCCS0612A Sample Amount: 1  
 Sample ID: CCC Std 122 ng/mL Dilution: 1  
 Date Acquired: 06/12/2015 19:04:27 Extract Volume: 1  
 Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 15:50:21  
 Sample Set Name: GC24\_061215c User Name: Amie Hamilton  
 Processing Method: CSGB\_LL1X\_012015 Current Time: 09:30:49  
 Run Time: 60 Minutes Current Date: 6/23/2015  
 Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-1179-3

Peak Results

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 737              | 7.950                     | 7.950                    |
| 2  | 4 (3)                             | 12.80              | 325              | 6.322                     | 6.322                    |
| 3  | 5 (4,10)                          | 13.40              | 401              | 1.997                     | 1.997                    |
| 4  | 6 (7,9)                           | 14.26              | 1076             | 0.788                     | 0.788                    |
| 5  | 7 (6)                             | 14.57              | 839              | 1.222                     | 1.222                    |
| 6  | 8 (5,8)                           | 14.76              | 3624             | 10.201                    | 10.201                   |
| 7  | 10 (19)                           | 15.40              | 258              | 0.259                     | 0.259                    |
| 8  | 13 (12,13)                        | 16.12              | 210              | 0.200                     | 0.200                    |
| 9  | 14 (15,18)                        | 16.25              | 3582             | 3.072                     | 3.072                    |
| 10 | 15 (17)                           | 16.33              | 1522             | 2.899                     | 2.899                    |
| 11 | 16 (24,27)                        | 16.63              | 345              | 0.218                     | 0.218                    |
| 12 | 17 (16,32)                        | 16.89              | 2850             | 3.042                     | 3.042                    |
| 13 | 19 (23,34,54)                     | 17.35              | 22               | 0.019                     | 0.019                    |
| 14 | 20 (29)                           | 17.51              | 79               | 0.067                     | 0.067                    |
| 15 | 21 (26)                           | 17.64              | 752              | 0.662                     | 0.662                    |
| 16 | 22 (25)                           | 17.72              | 437              | 0.307                     | 0.307                    |
| 17 | 23 (31)                           | 17.92              | 4821             | 3.222                     | 3.222                    |
| 18 | 24 (28,50)                        | 17.97              | 5526             | 3.273                     | 3.273                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 4067             | 3.157                     | 3.157                    |
| 20 | 26 (22,51)                        | 18.56              | 2629             | 2.217                     | 2.217                    |
| 21 | 27 (45)                           | 18.79              | 1005             | 0.746                     | 0.746                    |
| 22 | 29 (46)                           | 19.06              | 437              | 0.366                     | 0.366                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4561             | 4.194                     | 4.194                    |
| 24 | 32 (43,49)                        | 19.51              | 3740             | 1.756                     | 1.756                    |
| 25 | 33 (38,47)                        | 19.63              | 1822             | 0.614                     | 0.614                    |
| 26 | 34 (48,75)                        | 19.69              | 1691             | 0.823                     | 0.823                    |
| 27 | 36 (35)                           | 19.89              | 208              | 0.235                     | 0.235                    |
| 28 | 37 (104,44)                       | 20.09              | 5542             | 3.367                     | 3.367                    |
| 29 | 38 (37,42,59)                     | 20.22              | 3160             | 2.479                     | 2.479                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 6132             | 2.966                     | 2.966                    |
| 31 | 41 (68,96)                        | 20.72              | 108              | 0.081                     | 0.081                    |
| 32 | 42 (40)                           | 20.83              | 1371             | 0.830                     | 0.830                    |
| 33 | 43 (57,103)                       | 21.06              | 134              | 0.075                     | 0.075                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.24 | 318  | 0.133 | 0.133 |
| 35 | 45 (63)                | 21.40 | 403  | 0.186 | 0.186 |
| 36 | 46 (74,94,61)          | 21.57 | 3461 | 1.122 | 1.122 |
| 37 | 47 (70)                | 21.70 | 6402 | 2.604 | 2.604 |
| 38 | 48 (66,76,98,80,93,95, | 21.81 | 8372 | 5.129 | 5.129 |
| 39 | 49 (55,91,121)         | 22.12 | 801  | 0.470 | 0.470 |
| 40 | 50 (56,60)             | 22.42 | 7625 | 3.201 | 3.201 |
| 41 | 51 (84,92,155)         | 22.67 | 1620 | 1.744 | 1.744 |
| 42 | 52 (89)                | 22.77 | 154  | 0.094 | 0.094 |
| 43 | 53 (90,101)            | 22.92 | 2819 | 1.346 | 1.346 |
| 44 | 54 (79,99,113)         | 23.11 | 1472 | 0.469 | 0.469 |
| 45 | 55 (119,150)           | 23.39 | 79   | 0.018 | 0.018 |
| 46 | 56 (78,83,112,108)     | 23.48 | 272  | 0.154 | 0.154 |
| 47 | 57 (97,152,86)         | 23.70 | 1278 | 0.489 | 0.489 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 2197 | 0.980 | 0.980 |
| 49 | 59 (116,85,111)        | 24.02 | 1218 | 0.452 | 0.452 |
| 50 | 60 (120,136)           | 24.16 | 1232 | 0.537 | 0.537 |
| 51 | 61 (77,110,148)        | 24.28 | 3354 | 1.680 | 1.680 |
| 52 | 63 (82)                | 24.65 | 942  | 0.398 | 0.398 |
| 53 | 64 (151)               | 24.94 | 3001 | 1.312 | 1.312 |
| 54 | 65 (124,135)           | 25.08 | 839  | 0.219 | 0.219 |
| 55 | 66 (144)               | 25.13 | 545  | 0.417 | 0.417 |
| 56 | 67 (107,109,147)       | 25.20 | 171  | 0.091 | 0.091 |
| 57 | 68 (123)               | 25.29 | 51   | 0.022 | 0.022 |
| 58 | 69 (106,118,139,149)   | 25.39 | 7184 | 2.834 | 2.834 |
| 59 | 71 (114,134,143)       | 25.78 | 358  | 0.153 | 0.153 |
| 60 | 72 (122,131,133,142)   | 25.95 | 62   | 0.018 | 0.018 |
| 61 | 73 (146,165,188)       | 26.26 | 635  | 0.256 | 0.256 |
| 62 | 74 (105,132,161)       | 26.39 | 3146 | 0.959 | 0.959 |
| 63 | 75 (153)               | 26.54 | 5921 | 1.861 | 1.861 |
| 64 | 77 (141)               | 27.06 | 2042 | 1.141 | 1.141 |
| 65 | 78 (179)               | 27.14 | 3278 | 1.391 | 1.391 |
| 66 | 79 (137)               | 27.33 | 97   | 0.130 | 0.130 |
| 67 | 80 (130,176)           | 27.50 | 946  | 0.217 | 0.217 |
| 68 | 82 (138,163,164)       | 27.71 | 4584 | 1.583 | 1.583 |
| 69 | 83 (158,160,186)       | 27.89 | 415  | 0.149 | 0.149 |
| 70 | 84 (126,129)           | 28.11 | 103  | 0.013 | 0.013 |
| 71 | 85 (166,178)           | 28.43 | 1337 | 0.934 | 0.934 |
| 72 | 87 (175,159)           | 28.73 | 261  | 0.182 | 0.182 |
| 73 | 88 (182,187)           | 28.87 | 8056 | 2.824 | 2.824 |
| 74 | 89 (128,162)           | 29.00 | 258  | 0.072 | 0.072 |
| 75 | 90 (183)               | 29.17 | 3259 | 1.239 | 1.239 |
| 76 | 91 (167)               | 29.42 | 65   | 0.037 | 0.037 |
| 77 | 92 (185)               | 29.78 | 1376 | 0.365 | 0.365 |
| 78 | 93 (174,181)           | 30.15 | 7035 | 2.545 | 2.545 |
| 79 | 94 (177)               | 30.40 | 3182 | 1.322 | 1.322 |
| 80 | 95 (156,171)           | 30.70 | 1352 | 0.555 | 0.555 |
| 81 | 96 (157,202)           | 30.96 | 1146 | 0.065 | 0.065 |
| 82 | 98 (173)               | 31.11 | 98   | 0.037 | 0.037 |
| 83 | 99 (201)               | 31.50 | 877  | 0.362 | 0.362 |
| 84 | 100 (172,204)          | 31.72 | 892  | 0.413 | 0.413 |

|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.08 | 262   | 0.189   | 0.189   |
| 86  | 102 (180)     | 32.20 | 13146 | 4.100   | 4.100   |
| 87  | 103 (193)     | 32.44 | 734   | 0.349   | 0.349   |
| 88  | 104 (191)     | 32.76 | 233   | 0.109   | 0.109   |
| 89  | 105 (200,169) | 33.11 | 1036  | 0.387   | 0.387   |
| 90  | 106 (170)     | 34.23 | 4716  | 0.967   | 0.967   |
| 91  | 107 (190)     | 34.49 | 1138  | 0.309   | 0.309   |
| 92  | 108 (198)     | 35.34 | 362   | 0.110   | 0.110   |
| 93  | 109 (199)     | 35.58 | 6381  | 3.516   | 3.516   |
| 94  | 110 (196,203) | 36.11 | 6533  | 3.215   | 3.215   |
| 95  | 111 (189)     | 37.28 | 88    | 0.021   | 0.021   |
| 96  | 112 (195)     | 38.79 | 2143  | 0.413   | 0.413   |
| 97  | 113 (208)     | 39.28 | 378   | 0.233   | 0.233   |
| 98  | 114 (207)     | 40.23 | 242   | 0.080   | 0.080   |
| 99  | 115 (194)     | 41.59 | 5153  | 1.178   | 1.178   |
| 100 | 116 (205)     | 42.45 | 252   | 0.087   | 0.087   |
| 101 | 117 (206)     | 47.53 | 1995  | 0.523   | 0.523   |
| 102 | 118 (209)     | 53.57 | 12    | 0.005   | 0.005   |
| 103 | Sum           |       |       | 130.339 | 130.339 |



Sample Name: CCCS0612B Sample Amount: 1  
 Sample ID: CCC Std 122 ng/mL Dilution: 1  
 Date Acquired: 06/13/2015 00:03:23 Extract Volume: 1  
 Project Name: GC24\_Jan\_2015 Date Processed: 06/17/2015 15:50:39  
 Sample Set Name: GC24\_061215c User Name: Amie Hamilton  
 Processing Method: CSGB\_LL1X\_012015 Current Time: 09:30:51  
 Run Time: 60 Minutes Current Date: 6/23/2015  
 Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC24-1179-6

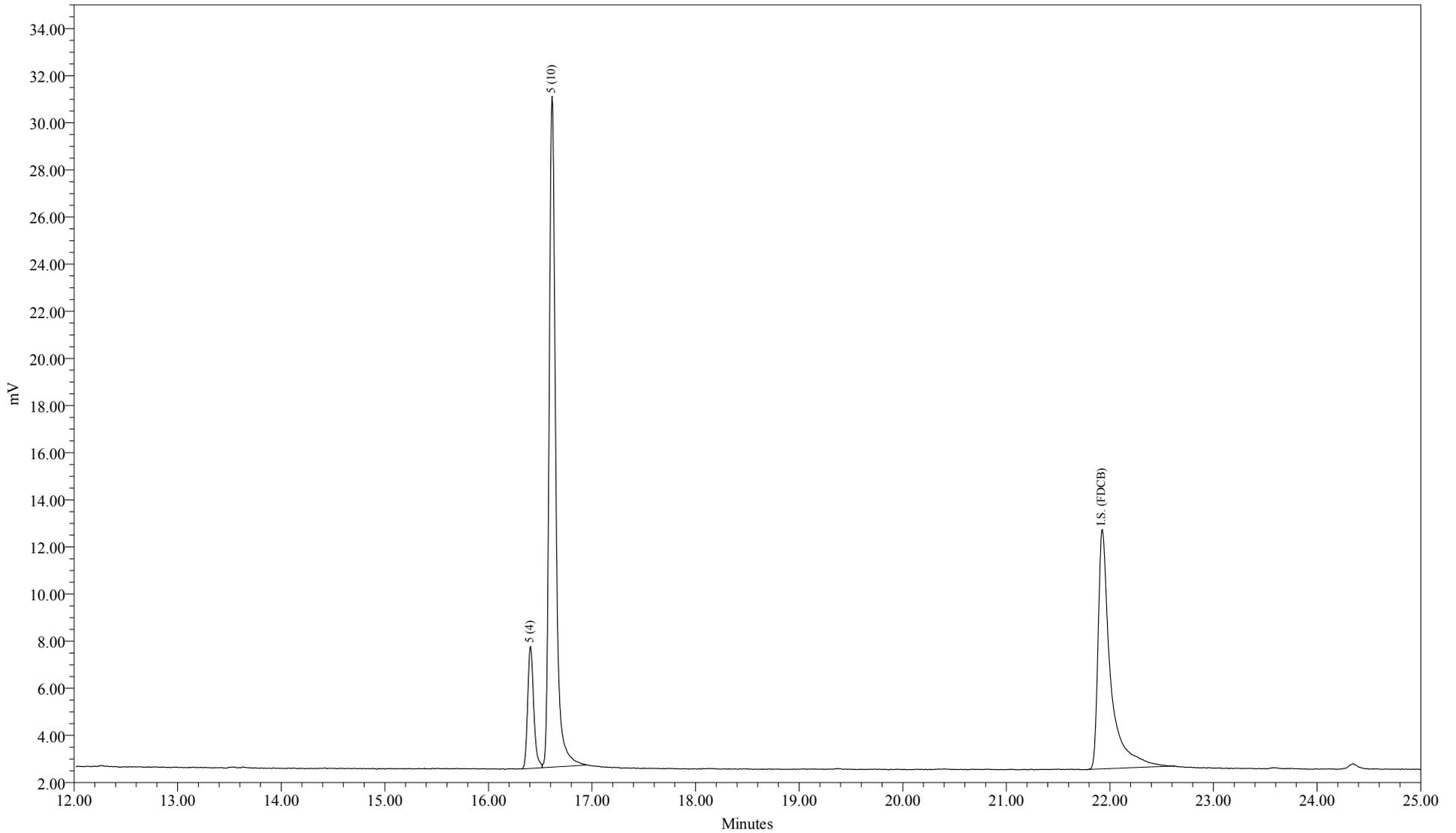
Peak Results

|    | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|----|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1  | 2 (1)                             | 11.67              | 745              | 7.440                     | 7.440                    |
| 2  | 4 (3)                             | 12.80              | 284              | 5.109                     | 5.109                    |
| 3  | 5 (4,10)                          | 13.41              | 445              | 2.054                     | 2.054                    |
| 4  | 6 (7,9)                           | 14.26              | 1078             | 0.730                     | 0.730                    |
| 5  | 7 (6)                             | 14.57              | 865              | 1.167                     | 1.167                    |
| 6  | 8 (5,8)                           | 14.76              | 3834             | 9.990                     | 9.990                    |
| 7  | 10 (19)                           | 15.39              | 221              | 0.205                     | 0.205                    |
| 8  | 13 (12,13)                        | 16.11              | 190              | 0.167                     | 0.167                    |
| 9  | 14 (15,18)                        | 16.25              | 3722             | 2.954                     | 2.954                    |
| 10 | 15 (17)                           | 16.33              | 1567             | 2.763                     | 2.763                    |
| 11 | 16 (24,27)                        | 16.63              | 344              | 0.202                     | 0.202                    |
| 12 | 17 (16,32)                        | 16.89              | 3027             | 2.992                     | 2.992                    |
| 13 | 19 (23,34,54)                     | 17.35              | 31               | 0.025                     | 0.025                    |
| 14 | 20 (29)                           | 17.49              | 68               | 0.054                     | 0.054                    |
| 15 | 21 (26)                           | 17.64              | 775              | 0.632                     | 0.632                    |
| 16 | 22 (25)                           | 17.72              | 432              | 0.281                     | 0.281                    |
| 17 | 23 (31)                           | 17.92              | 5025             | 3.108                     | 3.108                    |
| 18 | 24 (28,50)                        | 17.97              | 5756             | 3.154                     | 3.154                    |
| 19 | 25 (20,21,33,53)                  | 18.32              | 4339             | 3.118                     | 3.118                    |
| 20 | 26 (22,51)                        | 18.56              | 2851             | 2.225                     | 2.225                    |
| 21 | 27 (45)                           | 18.79              | 1177             | 0.809                     | 0.809                    |
| 22 | 29 (46)                           | 19.07              | 426              | 0.329                     | 0.329                    |
| 23 | 31 (52,69,73)                     | 19.35              | 4749             | 4.041                     | 4.041                    |
| 24 | 32 (43,49)                        | 19.52              | 3915             | 1.701                     | 1.701                    |
| 25 | 33 (38,47)                        | 19.63              | 1928             | 0.602                     | 0.602                    |
| 26 | 34 (48,75)                        | 19.70              | 1761             | 0.794                     | 0.794                    |
| 27 | 36 (35)                           | 19.89              | 258              | 0.270                     | 0.270                    |
| 28 | 37 (104,44)                       | 20.09              | 5841             | 3.285                     | 3.285                    |
| 29 | 38 (37,42,59)                     | 20.22              | 3364             | 2.443                     | 2.443                    |
| 30 | 39 (41,64,71,72)                  | 20.56              | 6350             | 2.843                     | 2.843                    |
| 31 | 41 (68,96)                        | 20.73              | 89               | 0.062                     | 0.062                    |
| 32 | 42 (40)                           | 20.83              | 1430             | 0.801                     | 0.801                    |
| 33 | 43 (57,103)                       | 21.09              | 113              | 0.058                     | 0.058                    |

|    |                        |       |      |       |       |
|----|------------------------|-------|------|-------|-------|
| 34 | 44 (58,67,100)         | 21.23 | 305  | 0.118 | 0.118 |
| 35 | 45 (63)                | 21.40 | 443  | 0.189 | 0.189 |
| 36 | 46 (74,94,61)          | 21.57 | 3587 | 1.076 | 1.076 |
| 37 | 47 (70)                | 21.70 | 6716 | 2.529 | 2.529 |
| 38 | 48 (66,76,98,80,93,95, | 21.82 | 8798 | 4.988 | 4.988 |
| 39 | 49 (55,91,121)         | 22.12 | 809  | 0.439 | 0.439 |
| 40 | 50 (56,60)             | 22.42 | 8711 | 3.387 | 3.387 |
| 41 | 51 (84,92,155)         | 22.66 | 1690 | 1.684 | 1.684 |
| 42 | 52 (89)                | 22.77 | 172  | 0.096 | 0.096 |
| 43 | 53 (90,101)            | 22.92 | 2955 | 1.306 | 1.306 |
| 44 | 54 (79,99,113)         | 23.11 | 1533 | 0.452 | 0.452 |
| 45 | 55 (119,150)           | 23.39 | 101  | 0.021 | 0.021 |
| 46 | 56 (78,83,112,108)     | 23.49 | 323  | 0.169 | 0.169 |
| 47 | 57 (97,152,86)         | 23.70 | 1389 | 0.492 | 0.492 |
| 48 | 58 (81,87,117,125,115  | 23.87 | 2375 | 0.981 | 0.981 |
| 49 | 59 (116,85,111)        | 24.02 | 1275 | 0.439 | 0.439 |
| 50 | 60 (120,136)           | 24.16 | 1316 | 0.531 | 0.531 |
| 51 | 61 (77,110,148)        | 24.28 | 3531 | 1.637 | 1.637 |
| 52 | 63 (82)                | 24.65 | 962  | 0.376 | 0.376 |
| 53 | 64 (151)               | 24.94 | 3198 | 1.295 | 1.295 |
| 54 | 65 (124,135)           | 25.08 | 890  | 0.215 | 0.215 |
| 55 | 66 (144)               | 25.14 | 578  | 0.410 | 0.410 |
| 56 | 67 (107,109,147)       | 25.19 | 248  | 0.122 | 0.122 |
| 57 | 68 (123)               | 25.29 | 98   | 0.039 | 0.039 |
| 58 | 69 (106,118,139,149)   | 25.39 | 7617 | 2.781 | 2.781 |
| 59 | 71 (114,134,143)       | 25.78 | 353  | 0.139 | 0.139 |
| 60 | 72 (122,131,133,142)   | 25.97 | 46   | 0.013 | 0.013 |
| 61 | 73 (146,165,188)       | 26.26 | 638  | 0.238 | 0.238 |
| 62 | 74 (105,132,161)       | 26.39 | 3267 | 0.922 | 0.922 |
| 63 | 75 (153)               | 26.54 | 6202 | 1.803 | 1.803 |
| 64 | 77 (141)               | 27.07 | 2094 | 1.083 | 1.083 |
| 65 | 78 (179)               | 27.14 | 3484 | 1.368 | 1.368 |
| 66 | 79 (137)               | 27.35 | 80   | 0.100 | 0.100 |
| 67 | 80 (130,176)           | 27.50 | 1009 | 0.214 | 0.214 |
| 68 | 82 (138,163,164)       | 27.72 | 4817 | 1.540 | 1.540 |
| 69 | 83 (158,160,186)       | 27.89 | 416  | 0.138 | 0.138 |
| 70 | 84 (126,129)           | 28.09 | 107  | 0.013 | 0.013 |
| 71 | 85 (166,178)           | 28.43 | 1446 | 0.936 | 0.936 |
| 72 | 87 (175,159)           | 28.73 | 265  | 0.171 | 0.171 |
| 73 | 88 (182,187)           | 28.87 | 8507 | 2.760 | 2.760 |
| 74 | 89 (128,162)           | 28.99 | 263  | 0.068 | 0.068 |
| 75 | 90 (183)               | 29.17 | 3469 | 1.221 | 1.221 |
| 76 | 91 (167)               | 29.44 | 104  | 0.054 | 0.054 |
| 77 | 92 (185)               | 29.77 | 1525 | 0.375 | 0.375 |
| 78 | 93 (174,181)           | 30.14 | 7538 | 2.525 | 2.525 |
| 79 | 94 (177)               | 30.41 | 3385 | 1.302 | 1.302 |
| 80 | 95 (156,171)           | 30.71 | 1403 | 0.533 | 0.533 |
| 81 | 96 (157,202)           | 30.97 | 1203 | 0.063 | 0.063 |
| 82 | 98 (173)               | 31.14 | 108  | 0.038 | 0.038 |
| 83 | 99 (201)               | 31.50 | 886  | 0.338 | 0.338 |
| 84 | 100 (172,204)          | 31.73 | 918  | 0.394 | 0.394 |

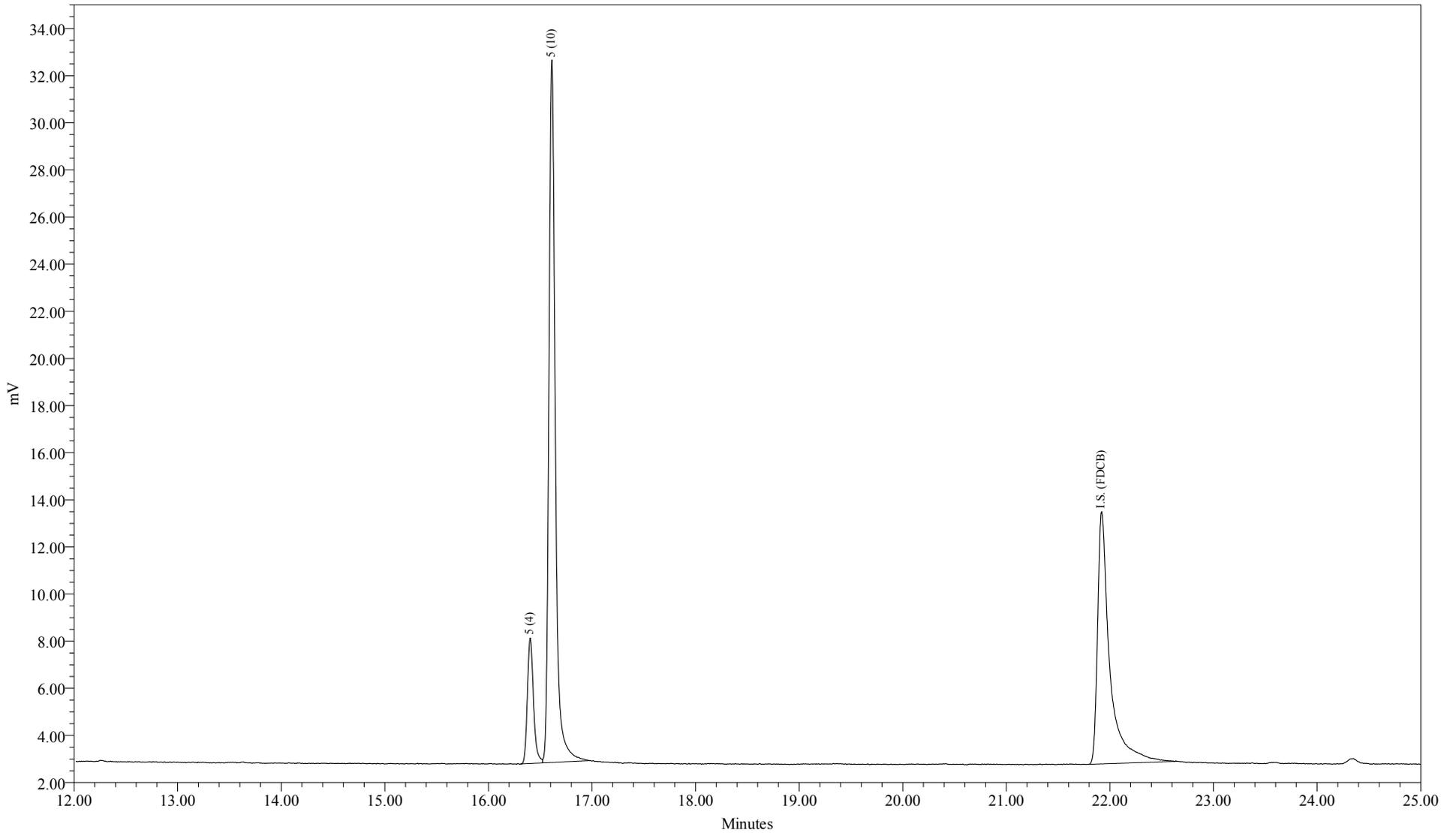
|     |               |       |       |         |         |
|-----|---------------|-------|-------|---------|---------|
| 85  | 101 (192,197) | 32.02 | 199   | 0.134   | 0.134   |
| 86  | 102 (180)     | 32.20 | 13767 | 3.973   | 3.973   |
| 87  | 103 (193)     | 32.44 | 723   | 0.318   | 0.318   |
| 88  | 104 (191)     | 32.76 | 192   | 0.083   | 0.083   |
| 89  | 105 (200,169) | 33.11 | 1105  | 0.382   | 0.382   |
| 90  | 106 (170)     | 34.24 | 5197  | 0.987   | 0.987   |
| 91  | 107 (190)     | 34.48 | 1095  | 0.275   | 0.275   |
| 92  | 108 (198)     | 35.33 | 424   | 0.119   | 0.119   |
| 93  | 109 (199)     | 35.59 | 6806  | 3.471   | 3.471   |
| 94  | 110 (196,203) | 36.11 | 6873  | 3.131   | 3.131   |
| 95  | 111 (189)     | 37.25 | 146   | 0.033   | 0.033   |
| 96  | 112 (195)     | 38.80 | 2284  | 0.407   | 0.407   |
| 97  | 113 (208)     | 39.29 | 510   | 0.291   | 0.291   |
| 98  | 114 (207)     | 40.25 | 306   | 0.093   | 0.093   |
| 99  | 115 (194)     | 41.60 | 5450  | 1.154   | 1.154   |
| 100 | 116 (205)     | 42.49 | 233   | 0.075   | 0.075   |
| 101 | 117 (206)     | 47.52 | 2125  | 0.516   | 0.516   |
| 102 | 118 (209)     | 53.53 | 8     | 0.003   | 0.003   |
| 103 | Sum           |       |       | 125.966 | 125.966 |

# STANDARDS RAW DATA (GC30)



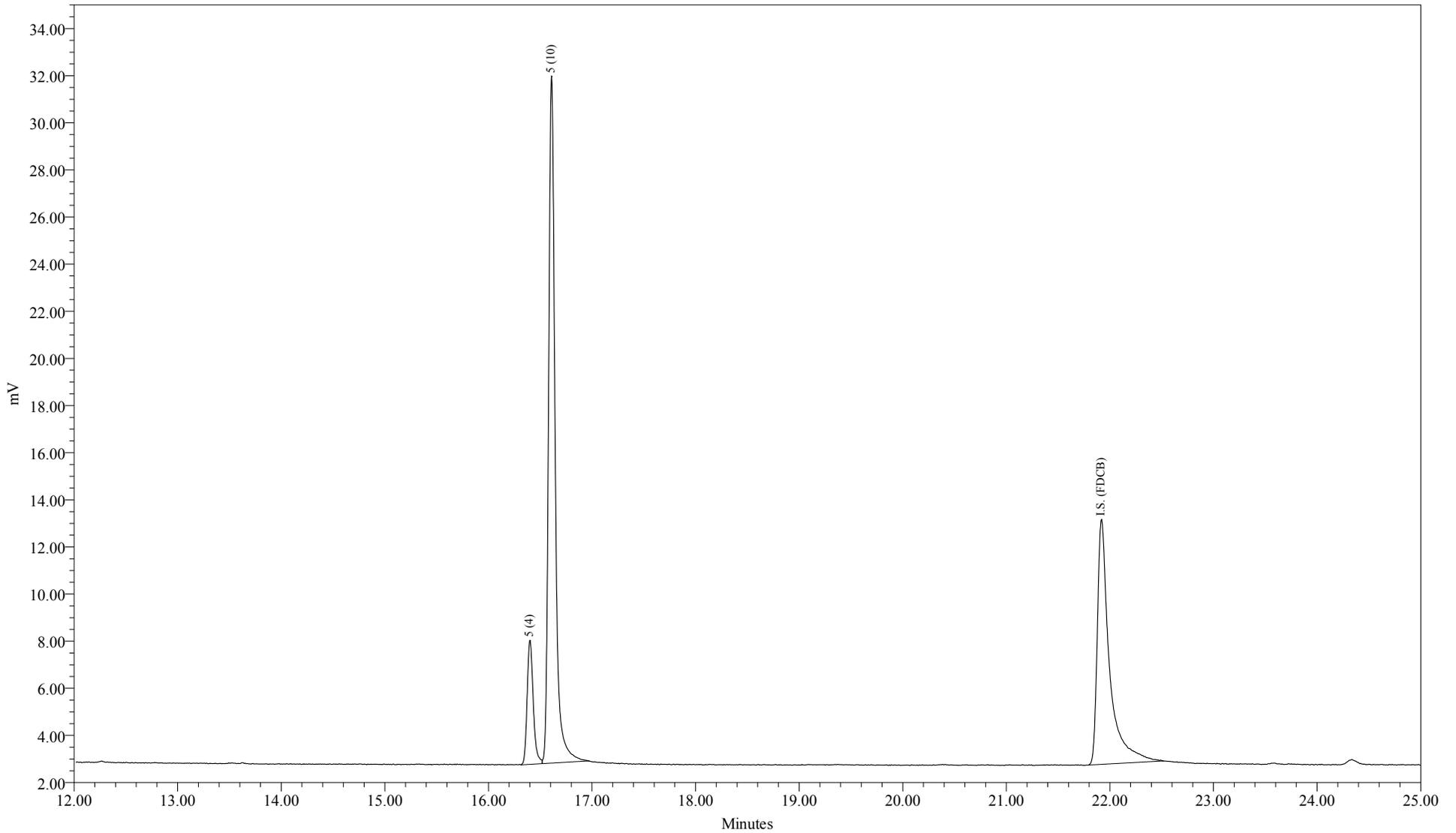
Sample Name: CCCS0610AA  
Sample ID: CCCS Std 25.0 ng/mL  
Date Acquired: 6/10/2015 5:23:18 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-4 [m]



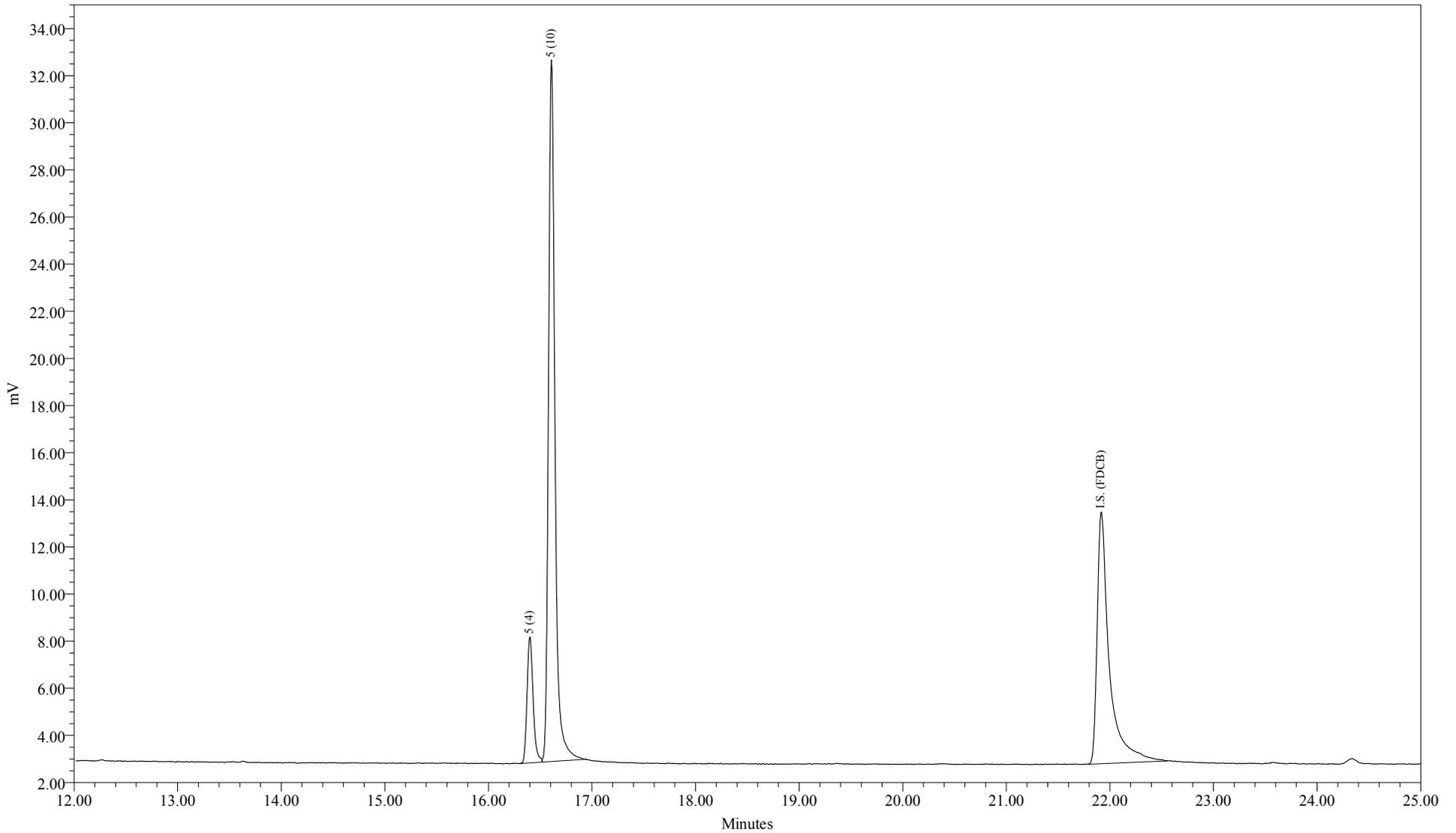
Sample Name: CCCS0610AB  
Sample ID: CCCS Std 25.0 ng/mL  
Date Acquired: 6/10/2015 8:33:30 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-8 [m]



Sample Name: CCCS0611AA  
Sample ID: CCCS Std 25.0 ng/mL  
Date Acquired: 6/11/2015 6:00:15 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-458-4 [m]



Sample Name: CCCS0611AB  
Sample ID: CCCS Std 25.0 ng/mL  
Date Acquired: 6/11/2015 7:35:13 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-458-6 [m]



Sample Name: CCCS0610AA Sample Amount: 1  
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1  
Date Acquired: 06/10/2015 17:23:18 Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 06/10/2015 18:07:00  
Sample Set Name: GC30\_061015 User Name: Amie Hamilton  
Processing Method: GC30\_410\_1X\_052015 Current Time: 09:30:53  
Run Time: 38 Minutes Current Date: 6/23/2015  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC30-457-4

Peak Results

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|---|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1 | 5 (4)                             | 16.41              | 20939            | 26.151                    | 26.151                   |
| 2 | 5 (10)                            | 16.62              | 125137           | 25.137                    | 25.137                   |



Sample Name: CCCS0610AB Sample Amount: 1  
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1  
Date Acquired: 06/10/2015 20:33:30 Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 06/10/2015 21:22:37  
Sample Set Name: GC30\_061015 User Name: Amie Hamilton  
Processing Method: GC30\_410\_1X\_052015 Current Time: 09:30:53  
Run Time: 38 Minutes Current Date: 6/23/2015  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC30-457-8

Peak Results

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|---|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1 | 5 (4)                             | 16.40              | 21715            | 26.089                    | 26.089                   |
| 2 | 5 (10)                            | 16.61              | 129343           | 24.993                    | 24.993                   |



Sample Name: CCCS0611AA Sample Amount: 1  
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1  
Date Acquired: 06/11/2015 18:00:15 Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 06/11/2015 18:39:59  
Sample Set Name: GC30\_061115 User Name: Amie Hamilton  
Processing Method: GC30\_410\_1X\_052015 Current Time: 09:30:53  
Run Time: 38 Minutes Current Date: 6/23/2015  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC30-458-4

**Peak Results**

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|---|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1 | 5 (4)                             | 16.40              | 21484            | 26.615                    | 26.615                   |
| 2 | 5 (10)                            | 16.61              | 127544           | 25.413                    | 25.413                   |



Sample Name: CCCS0611AB Sample Amount: 1  
Sample ID: CCCS Std 25.0 ng/mL Dilution: 1  
Date Acquired: 06/11/2015 19:35:13 Extract Volume: 1  
Project Name: GC30\_Jan\_2015 Date Processed: 06/11/2015 21:16:16  
Sample Set Name: GC30\_061115 User Name: Amie Hamilton  
Processing Method: GC30\_410\_1X\_052015 Current Time: 09:30:53  
Run Time: 38 Minutes Current Date: 6/23/2015  
Report Name: CSGB\_ChkStd\_ng\_mL LIMS File ID: GC30-458-6

Peak Results

|   | DB-1 Peak Number<br>(PCB IUPAC #) | Ret. Time<br>(min) | Area<br>(uV*sec) | Solution Conc.<br>(ng/mL) | Sample Amount<br>(ng/mL) |
|---|-----------------------------------|--------------------|------------------|---------------------------|--------------------------|
| 1 | 5 (4)                             | 16.40              | 21726            | 26.208                    | 26.208                   |
| 2 | 5 (10)                            | 16.61              | 128890           | 25.007                    | 25.007                   |

# QC SAMPLE RAW DATA

**PCB SAMPLE ANALYSIS DATA SHEET**

|                           |  |                     |                               |
|---------------------------|--|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>          | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>                                   | LRF ID:             | <u>CEBLK-50RR1</u>            |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                      | Client ID:          | <u>CEBLK-50(METHOD BLANK)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                 | Lab Sample ID:      | <u>AS11828BRR1</u>            |
| % Moisture:               | <u>100</u>                                     | Lab File ID:        | <u>GC24-1177-8</u>            |
| Extraction:               | <u>1L - Solid Phase Extraction</u>             | Date Received:      | <u></u>                       |
| Conc. Extract Volume:     | <u>5000 uL</u>                                 | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>0.5 uL</u>                                  | Date/Time Analyzed: | <u>06/10/2015 23:23</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                            | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                        | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm</u> |                     |                               |

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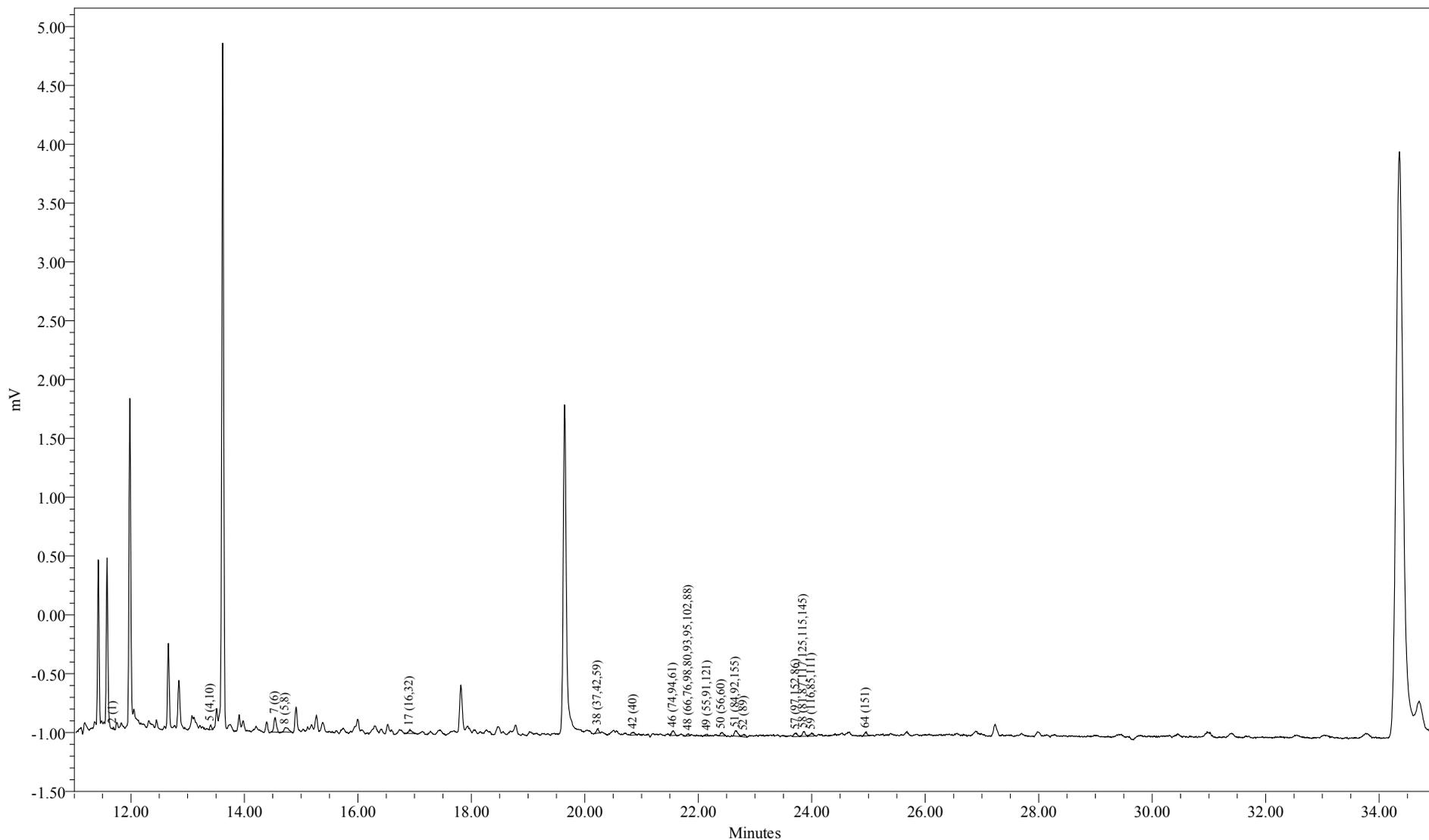
OCN (I.S.) Peak Area: 72844

Percent Recovery (50 - 150 %): 126

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11828BRR1  
Sample ID: METHOD BLANK  
Date Acquired: 6/10/2015 11:23:06 PM EDT

Sample Amount (L): 1.0000  
Dilution: 5  
Processing Method: CSGB\_LL1X\_012015  
LIMS File ID: GC24-1177-8 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 23:23:06  
 Lab Sample ID: AS11828BRR1  
 LRF ID: CEBLK-50RR1  
 Lab File ID: GC24-1177-8

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = <8.04 ng/L U

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 10.35    | 13.36  |
| Di       | 50.71    | 55.35  |
| Tri      | 9.43     | 8.79   |
| Tetra    | 5.95     | 5.07   |
| Penta    | 21.43    | 15.99  |
| Hexa     | 2.13     | 1.44   |
| Hepta    | 0.00     | 0.00   |
| Octa     | 0.00     | 0.00   |
| Nona     | 0.00     | 0.00   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>ng/L | Percent<br>Sediment | Percent<br>Biota |
|----------|------------------------------------|----------------|---------------------|------------------|
| A1221    | 2/001                              | 0.8021         | 100                 | 100              |
| A1242    | 23+24/31+28                        |                | 0.00                | 0.00             |
| A1254SED | 61/100                             |                | 0.00                |                  |
| A1254BIO | 69+75+82/149+153+138               |                |                     | 0.00             |
| A1260    | 102/180                            |                | 0.00                | 0.00             |
| A1268    | 115/194                            |                | 0.00                | 0.00             |

Ortho Cl / biphenyl Residue = 1.38  
 Meta + Para Cl / biphenyl Residue = 1.21  
 Total Cl / biphenyl Residue = 2.59

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 23:23:06  
 Lab Sample ID: AS11828BRR1  
 LRF ID: CEBLK-50RR1  
 Lab File ID: GC24-1177-8

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Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 2                | 11.69          | 188.7            | 18        | 0.802         | 4.25                 | 0.285      | 2.19      | J    |
| 3                | 12.70          | 188.7            |           |               |                      | 5.51       | 1000      | U    |
| 4                | 12.81          | 188.7            |           |               |                      | 1.15       | 1.28      | U    |
| 5-4              | 16.44          | 223.1            | 3         |               |                      | 0.150      | 0.500     | U    |
| 5-10             | 16.63          | 223.1            | 5         |               |                      | 0.0742     | 0.500     | U    |
| 6                | 14.27          | 223.1            |           |               |                      | 0.0735     | 0.219     | U    |
| 7                | 14.54          | 223.1            | 377       | 2.17          | 9.71                 | 0.311      | 0.347     |      |
| 8                | 14.72          | 223.1            | 199       | 1.76          | 7.89                 | 0.426      | 2.56      | J    |
| 9                | 15.32          | 223.1            |           |               |                      | 0.859      | 25.0      | U    |
| 10               | 15.41          | 257.5            |           |               |                      | 0.0359     | 0.102     | U    |
| 11               | 15.87          | 257.5            |           |               |                      | 0.104      | 25.0      | U    |
| 12               | 15.93          | 223.1            |           |               |                      | 0.396      | 25.0      | U    |
| 13               | 16.12          | 223.1            |           |               |                      | 0.0396     | 0.0975    | U    |
| 14               | 16.26          | 249.0            |           |               |                      | 0.132      | 0.676     | U    |
| 15               | 16.35          | 257.5            |           |               |                      | 0.140      | 0.676     | U    |
| 16               | 16.65          | 257.5            |           |               |                      | 0.0320     | 0.0475    | U    |
| 17               | 16.91          | 257.5            | 120       | 0.542         | 2.10                 | 0.121      | 0.713     | J    |
| 19               | 17.35          | 267.9            |           |               |                      | 0.131      | 25.0      | U    |
| 20               | 17.52          | 257.5            |           |               |                      | 0.00734    | 0.0194    | U    |
| 21               | 17.66          | 257.5            |           |               |                      | 0.0343     | 0.132     | U    |
| 22               | 17.73          | 257.5            |           |               |                      | 0.0219     | 0.0585    | U    |
| 23               | 17.94          | 257.5            |           |               |                      | 0.111      | 0.753     | U    |
| 24               | 17.98          | 257.5            |           |               |                      | 0.149      | 0.964     | U    |
| 25               | 18.34          | 259.5            |           |               |                      | 0.142      | 0.726     | U    |
| 26               | 18.57          | 258.7            |           |               |                      | 0.112      | 0.530     | U    |
| 27               | 18.80          | 292.0            |           |               |                      | 0.0864     | 0.163     | U    |
| 28               | 18.93          | 257.5            |           |               |                      | 0.156      | 25.0      | U    |
| 29               | 19.08          | 292.0            |           |               |                      | 0.0356     | 0.0731    | U    |
| 30               | 19.18          | 257.5            |           |               |                      | 0.0623     | 25.0      | U    |
| 31               | 19.36          | 292.0            |           |               |                      | 0.127      | 0.872     | U    |
| 32               | 19.53          | 292.0            |           |               |                      | 0.125      | 0.420     | U    |
| 33               | 19.65          | 292.0            |           |               |                      | 0.0782     | 0.183     | U    |
| 34               | 19.71          | 292.0            |           |               |                      | 0.0415     | 0.183     | U    |
| 35               | 19.85          | 292.0            |           |               |                      | 0.0582     | 25.0      | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 36               | 19.93          | 257.5            |           |               |                      | 0.0934     | 25.0      | U    |
| 37               | 20.10          | 292.0            |           |               |                      | 0.251      | 0.786     | U    |
| 38               | 20.23          | 272.4            | 103       | 0.332         | 1.22                 | 0.122      | 0.475     | J    |
| 39               | 20.58          | 292.0            |           |               |                      | 0.102      | 0.749     | U    |
| 41               | 20.75          | 326.4            |           |               |                      | 0.101      | 25.0      | U    |
| 42               | 20.86          | 292.0            | 97        | 0.213         | 0.731                | 0.0358     | 0.172     |      |
| 43               | 21.09          | 298.9            |           |               |                      | 0.142      | 25.0      | U    |
| 44               | 21.25          | 298.9            |           |               |                      | 0.0226     | 0.0402    | U    |
| 45               | 21.41          | 292.0            |           |               |                      | 0.0333     | 0.0384    | U    |
| 46               | 21.55          | 292.0            | 147       | 0.0996        | 0.341                | 0.0721     | 0.347     | J    |
| 47               | 21.72          | 292.0            |           |               |                      | 0.106      | 0.621     | U    |
| 48               | 21.82          | 293.5            | 46        |               |                      | 0.216      | 1.32      | U    |
| 49               | 22.16          | 324.7            | 49        | 0.108         | 0.334                | 0.0239     | 0.0932    |      |
| 50               | 22.41          | 292.0            | 113       |               |                      | 0.122      | 0.640     | U    |
| 51               | 22.66          | 326.4            | 203       | 0.858         | 2.63                 | 0.0989     | 0.329     |      |
| 52               | 22.80          | 326.4            | 79        | 0.191         | 0.586                | 0.0132     | 0.0366    |      |
| 53               | 22.93          | 326.4            |           |               |                      | 0.0430     | 0.329     | U    |
| 54               | 23.12          | 326.4            |           |               |                      | 0.0172     | 0.135     | U    |
| 55               | 23.40          | 326.4            |           |               |                      | 0.00657    | 0.0102    | U    |
| 56               | 23.50          | 326.4            |           |               |                      | 0.0251     | 0.0548    | U    |
| 57               | 23.72          | 326.4            | 116       | 0.168         | 0.515                | 0.0653     | 0.102     |      |
| 58               | 23.86          | 326.4            | 145       | 0.209         | 0.640                | 0.0479     | 0.212     | J    |
| 59               | 24.00          | 326.4            | 103       | 0.131         | 0.402                | 0.0224     | 0.128     |      |
| 60               | 24.18          | 360.9            |           |               |                      | 0.0379     | 0.137     | U    |
| 61               | 24.30          | 326.4            |           |               |                      | 0.0690     | 0.389     | U    |
| 62               | 24.57          | 360.9            |           |               |                      | 0.116      | 25.0      | U    |
| 63               | 24.67          | 326.4            |           |               |                      | 0.0268     | 0.0804    | U    |
| 64               | 24.96          | 360.9            | 107       | 0.165         | 0.458                | 0.0497     | 0.311     | J    |
| 65               | 25.10          | 350.5            |           |               |                      | 0.0150     | 0.0530    | U    |
| 66               | 25.15          | 360.9            |           |               |                      | 0.0349     | 0.110     | U    |
| 67               | 25.22          | 336.8            |           |               |                      | 0.0198     | 0.0475    | U    |
| 68               | 25.31          | 326.4            |           |               |                      | 0.158      | 25.0      | U    |
| 69               | 25.41          | 337.5            |           |               |                      | 0.154      | 0.731     | U    |
| 70               | 25.52          | 360.9            |           |               |                      | 0.102      | 25.0      | U    |
| 71               | 25.80          | 347.8            |           |               |                      | 0.0342     | 0.0369    | U    |
| 72               | 26.01          | 336.8            |           |               |                      | 0.00525    | 0.0106    | U    |
| 73               | 26.27          | 360.9            |           |               |                      | 0.0258     | 0.0713    | U    |
| 74               | 26.41          | 347.8            |           |               |                      | 0.0335     | 0.248     | U    |
| 75               | 26.55          | 360.9            |           |               |                      | 0.0829     | 0.538     | U    |
| 76               | 26.65          | 360.9            |           |               |                      | 0.0915     | 25.0      | U    |
| 77               | 27.08          | 360.9            |           |               |                      | 0.0445     | 0.311     | U    |
| 78               | 27.16          | 395.3            |           |               |                      | 0.0542     | 0.267     | U    |
| 79               | 27.37          | 360.9            |           |               |                      | 0.0298     | 0.0298    | U    |
| 80               | 27.52          | 360.9            |           |               |                      | 0.00954    | 0.0475    | U    |
| 82               | 27.73          | 360.9            |           |               |                      | 0.0665     | 0.493     | U    |
| 83               | 27.91          | 360.9            |           |               |                      | 0.0310     | 0.0457    | U    |
| 84               | 28.10          | 360.9            |           |               |                      | 0.00213    | 0.00473   | U    |
| 85               | 28.45          | 395.3            |           |               |                      | 0.0563     | 0.201     | U    |
| 87               | 28.75          | 395.3            |           |               |                      | 0.0298     | 0.0731    | U    |
| 88               | 28.90          | 395.3            |           |               |                      | 0.0923     | 0.658     | U    |
| 89               | 29.03          | 360.9            |           |               |                      | 0.0213     | 0.0366    | U    |
| 90               | 29.20          | 395.3            |           |               |                      | 0.0576     | 0.311     | U    |



**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: METHOD BLANK  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/10/2015 23:23:06  
 Lab Sample ID: AS11828BRR1  
 LRF ID: CEBLK-50RR1  
 Lab File ID: GC24-1177-8

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|--------|------------------------|----------------|--------------|
| 2                | 11.69          | 1:1       | 001                  | 0.2542 | 2                      | 10.353         | 13.361       |
| 3                | 12.70          | 1:0       | 002                  |        | 3                      | -              | -            |
| 4                | 12.81          | 1:0       | 003                  |        | 4                      | -              | -            |
| 5-4              | 16.44          | 2:2       | 004                  |        | 2-2                    | -              | -            |
| 5-10             | 16.63          | 2:2       | 010                  |        | 26                     | -              | -            |
| 6                | 14.27          | 2:1       | 007 009              |        | 24; 25                 | -              | -            |
| 7                | 14.54          | 2:1       | 006                  | 0.3162 | 2-3                    | 27.972         | 30.533       |
| 8                | 14.72          | 2:1       | 005 008              | 0.3201 | 23; 2-4                | 22.734         | 24.815       |
| 9                | 15.32          | 2:0       | 014                  |        | 35                     | -              | -            |
| 10               | 15.41          | 3:3       | 019                  |        | 26-2                   | -              | -            |
| 11               | 15.87          | 3:2       | 030                  |        | 246                    | -              | -            |
| 12               | 15.93          | 2:0       | 011                  |        | 3-3                    | -              | -            |
| 13               | 16.12          | 2:0       | 012 013              |        | 34; 3-4                | -              | -            |
| 14               | 16.26          | 2:0 3:2   | 015 018              |        | 4-4; 25-2              | -              | -            |
| 15               | 16.35          | 3:2       | 017                  |        | 24-2                   | -              | -            |
| 16               | 16.65          | 3:2       | 024 027              |        | 236; 26-3              | -              | -            |
| 17               | 16.91          | 3:2       | 016 032              | 0.3678 | 23-2; 26-4             | 6.992          | 6.612        |
| 19               | 17.35          | 3:1 4:4   | 023 034 054          |        | 235; 35-2; 26-26       | -              | -            |
| 20               | 17.52          | 3:1       | 029                  |        | 245                    | -              | -            |
| 21               | 17.66          | 3:1       | 026                  |        | 25-3                   | -              | -            |
| 22               | 17.73          | 3:1       | 025                  |        | 24-3                   | -              | -            |
| 23               | 17.94          | 3:1       | 031                  |        | 25-4                   | -              | -            |
| 24               | 17.98          | 3:1 4:3   | 028 050              |        | 24-4; 246-2            | -              | -            |
| 25               | 18.34          | 3:1 4:3   | 020 021 033 053      |        | 23-3; 234; 34-2; 25-26 | -              | -            |
| 26               | 18.57          | 3:1 4:3   | 022 051              |        | 23-4; 24-26            | -              | -            |
| 27               | 18.80          | 4:3       | 045                  |        | 236-2                  | -              | -            |
| 28               | 18.93          | 3:0       | 036                  |        | 35-3                   | -              | -            |
| 29               | 19.08          | 4:3       | 046                  |        | 23-26                  | -              | -            |
| 30               | 19.18          | 3:0       | 039                  |        | 35-4                   | -              | -            |
| 31               | 19.36          | 4:2       | 052 069 073          |        | 25-25; 246-3; 26-35    | -              | -            |
| 32               | 19.53          | 4:2       | 043 049              |        | 235-2; 24-25           | -              | -            |
| 33               | 19.65          | 4:2       | 038 047              |        | 345; 24-24             | -              | -            |
| 34               | 19.71          | 4:2       | 048 075              |        | 245-2; 246-4           | -              | -            |
| 35               | 19.85          | 4:2       | 062 065              |        | 2346; 2356             | -              | -            |
| 36               | 19.93          | 3:0       | 035                  |        | 34-3                   | -              | -            |
| 37               | 20.10          | 5:4 4:2   | 104 044              |        | 246-26; 23-25          | -              | -            |
| 38               | 20.23          | 3:0 4:2   | 037 042 059          | 0.4400 | 34-4; 23-24; 236-3     | 4.279          | 3.825        |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight Percent | Mole Percent |
|------------------|----------------|-----------|---------------------------------|--------|---|----------------|--------------|
| 39               | 20.58          | 4:2       | 041 064 071 072                 |        | 234-2; 236-4; 26-34; 25-35                                  | -              | -            |
| 41               | 20.75          | 5:4       | 068 096                         |        | 24-35; 236-26   | -              | -            |
| 42               | 20.86          | 4:2       | 040                             | 0.4537 | 23-23   | 2.754          | 2.297        |
| 43               | 21.09          | 4:1 5:3   | 057 103                         |        | 235-3; 246-25   | -              | -            |
| 44               | 21.25          | 4:1 5:3   | 058 067 100                     |        | 23-35; 245-3; 246-24  | -              | -            |
| 45               | 21.41          | 4:1       | 063                             |        | 235-4   | -              | -            |
| 46               | 21.55          | 4:1 5:3   | 074 094 061                     | 0.4687 | 245-4; 235-26; 2345   | 1.285          | 1.072        |
| 47               | 21.72          | 4:1       | 070                             |        | 25-34   | -              | -            |
| 48               | 21.82          | 4:1 5:3   | 066 076 098 080 093 095 102 088 |        | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | -              | -            |
| 49               | 22.16          | 4:1 5:3   | 055 091 121                     | 0.4819 | 234-3; 236-24; 246-35                                       | 1.400          | 1.050        |
| 50               | 22.41          | 4:1       | 056 060                         |        | 23-34; 234-4  | -              | -            |
| 51               | 22.66          | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 11.068         | 8.258        |
| 52               | 22.80          | 5:3       | 089                             | 0.4959 | 234-26  | 2.470          | 1.843        |
| 53               | 22.93          | 5:2       | 090 101                         |        | 235-24; 245-25  | -              | -            |
| 54               | 23.12          | 5:2       | 079 099 113                     |        | 34-35; 245-24; 236-35                                       | -              | -            |
| 55               | 23.40          | 5:2 6:4   | 119 150                         |        | 246-34; 236-246   | -              | -            |
| 56               | 23.50          | 5:2       | 078 083 112 108                 |        | 345-3; 235-23; 2356-3; 2346-3                               | -              | -            |
| 57               | 23.72          | 5:2 6:4   | 097 152 086                     | 0.5159 | 245-23; 2356-26; 2345-2                                     | 2.170          | 1.619        |
| 58               | 23.86          | 5:2       | 081 087 117 125 115 145         | 0.5189 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 2.695          | 2.011        |
| 59               | 24.00          | 5:2       | 116 085 111                     | 0.5220 | 23456; 234-24; 235-35                                       | 1.695          | 1.265        |
| 60               | 24.18          | 6:4       | 120 136                         |        | 245-35; 236-236   | -              | -            |
| 61               | 24.30          | 5:2       | 077 110 148                     |        | 34-34; 236-34; 235-246                                      | -              | -            |
| 62               | 24.57          | 6:3       | 154                             |        | 245-246   | -              | -            |
| 63               | 24.67          | 5:2       | 082                             |        | 234-23  | -              | -            |
| 64               | 24.96          | 6:3       | 151                             | 0.5428 | 2356-25   | 2.134          | 1.440        |
| 65               | 25.10          | 5:1 6:3   | 124 135                         |        | 345-25; 235-236   | -              | -            |
| 66               | 25.15          | 6:3       | 144                             |        | 2346-25   | -              | -            |
| 67               | 25.22          | 5:1 6:3   | 107 109 147                     |        | 234-35; 235-34; 2356-24                                     | -              | -            |
| 68               | 25.31          | 5:1       | 123                             |        | 345-24  | -              | -            |
| 69               | 25.41          | 5:1 6:3   | 106 118 139 149                 |        | 2345-3; 245-34; 2346-24; 236-245                            | -              | -            |
| 70               | 25.52          | 6:3       | 140                             |        | 234-246   | -              | -            |
| 71               | 25.80          | 5:1 6:3   | 114 134 143                     |        | 2345-4; 2356-23; 2345-26                                    | -              | -            |
| 72               | 26.01          | 5:1 6:3   | 122 131 133 142                 |        | 345-23; 2346-23; 235-235; 23456-2                           | -              | -            |
| 73               | 26.27          | 6:2       | 146 165 188                     |        | 235-245; 2356-35; 2356-246                                  | -              | -            |
| 74               | 26.41          | 5:1 6:3   | 105 132 161                     |        | 234-34; 234-236; 2346-35                                    | -              | -            |
| 75               | 26.55          | 6:2       | 153                             |        | 245-245   | -              | -            |
| 76               | 26.65          | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -              | -            |
| 77               | 27.08          | 6:2       | 141                             |        | 2345-25   | -              | -            |
| 78               | 27.16          | 7:4       | 179                             |        | 2356-236  | -              | -            |
| 79               | 27.37          | 6:2       | 137                             |        | 2345-24   | -              | -            |
| 80               | 27.52          | 6:2 7:4   | 130 176                         |        | 234-235; 2346-236   | -              | -            |
| 82               | 27.73          | 6:2       | 138 163 164                     |        | 234-245; 2356-34; 236-345                                   | -              | -            |
| 83               | 27.91          | 6:2       | 158 160 186                     |        | 2346-34; 23456-3; 23456-26                                  | -              | -            |
| 84               | 28.10          | 6:2       | 126 129                         |        | 345-34; 2345-23   | -              | -            |
| 85               | 28.45          | 7:3       | 166 178                         |        | 23456-4; 2356-235   | -              | -            |
| 87               | 28.75          | 7:3       | 175 159                         |        | 2346-235; 2345-35   | -              | -            |
| 88               | 28.90          | 7:3       | 182 187                         |        | 2345-246; 2356-245  | -              | -            |
| 89               | 29.03          | 6:2       | 128 162                         |        | 234-234; 235-345  | -              | -            |
| 90               | 29.20          | 7:3       | 183                             |        | 2346-245  | -              | -            |
| 91               | 29.46          | 6:1       | 167                             |        | 245-345   | -              | -            |
| 92               | 29.80          | 7:3       | 185                             |        | 23456-25  | -              | -            |
| 93               | 30.17          | 7:3       | 174 181                         |        | 2345-236; 23456-24  | -              | -            |
| 94               | 30.43          | 7:3       | 177                             |        | 2356-234  | -              | -            |
| 95               | 30.74          | 6:1 7:3   | 156 171                         |        | 2345-34; 2346-234   | -              | -            |
| 96               | 30.99          | 8:4       | 157 202                         |        | 234-345; 2356-2356  | -              | -            |
| 98               | 31.16          | 7:3       | 173                             |        | 23456-23  | -              | -            |
| 99               | 31.52          | 8:4       | 201                             |        | 2346-2356   | -              | -            |
| 100              | 31.76          | 7:2       | 172 204                         |        | 2345-235; 23456-246   | -              | -            |
| 101              | 32.06          | 8:4       | 192 197                         |        | 23456-35; 2346-2346   | -              | -            |
| 102              | 32.23          | 7:2       | 180                             |        | 2345-245  | -              | -            |
| 103              | 32.48          | 7:2       | 193                             |        | 2356-345  | -              | -            |
| 104              | 32.79          | 7:2       | 191                             |        | 2346-345  | -              | -            |
| 105              | 33.15          | 8:4       | 200 169                         |        | 23456-236; 345-345  | -              | -            |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|-----|------------------------|----------------|--------------|
| 106              | 34.28          | 7:2       | <b>170</b>           |     | 2345-234               | -              | -            |
| 107              | 34.54          | 7:2       | <b>190</b>           |     | 23456-34               | -              | -            |
| 108              | 35.39          | 8:3       | <b>198</b>           |     | 23456-235              | -              | -            |
| 109              | 35.63          | 8:3       | <b>199</b>           |     | 2345-2356              | -              | -            |
| 110              | 36.15          | 8:3       | <b>196 203</b>       |     | 2345-2346; 23456-245   | -              | -            |
| 111              | 37.29          | 7:1       | <b>189</b>           |     | 2345-345               | -              | -            |
| 112              | 38.84          | 8:3       | <b>195</b>           |     | 23456-234              | -              | -            |
| 113              | 39.35          | 9:4       | <b>208</b>           |     | 23456-2356             | -              | -            |
| 114              | 40.26          | 9:4       | <b>207</b>           |     | 23456-2346             | -              | -            |
| 115              | 41.66          | 8:2       | <b>194</b>           |     | 2345-2345              | -              | -            |
| 116              | 42.54          | 8:2       | <b>205</b>           |     | 23456-345              | -              | -            |
| 117              | 47.61          | 9:3       | <b>206</b>           |     | 23456-2345             | -              | -            |
| 118              | 53.55          | 10:4      | <b>209</b>           |     | 23456-23456            | -              | -            |

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This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = <8.04 ng/L

Total Nanomoles = 0.032

Average Molecular Weight = 243.5

Number of Calibrated Peaks Found = 18

<sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

<sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.

<sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.

<sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of ± 0.07 minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <b>77</b>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <b>122</b>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105( <b>200</b> ,169)                                    | <i>169</i>                  |

<sup>5</sup>

**Note: This is not a NYSDOH ELAP certified method.**

**PCB SAMPLE ANALYSIS DATA SHEET**

|                           |   |                     |                               |
|---------------------------|---|---------------------|-------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>               | SDG No:             | <u>15060107</u>               |
| ELAP ID No:               | <u>11078</u>  | LRF ID:             | <u>CEBLK-50RR2</u>            |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                           | Client ID:          | <u>CEBLK-50(METHOD BLANK)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                      | Lab Sample ID:      | <u>AS11828BRR2</u>            |
| % Moisture:               | <u>100</u>  | Lab File ID:        | <u>GC30-457-5</u>             |
| Extraction:               | <u>1L - Solid Phase Extraction</u>                  | Date Received:      | <u></u>                       |
| Conc. Extract Volume:     | <u>5000 uL</u>                                      | Date Extracted:     | <u>06/04/2015</u>             |
| Injection Volume:         | <u>1.0 uL</u>                                       | Date/Time Analyzed: | <u>06/10/2015 18:10</u>       |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                                 | Dilution Factor:    | <u>1</u>                      |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                             | Sample Cleanup:     | <u>YES</u>                    |
| GC Column:                | <u>Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm</u> |                     |                               |

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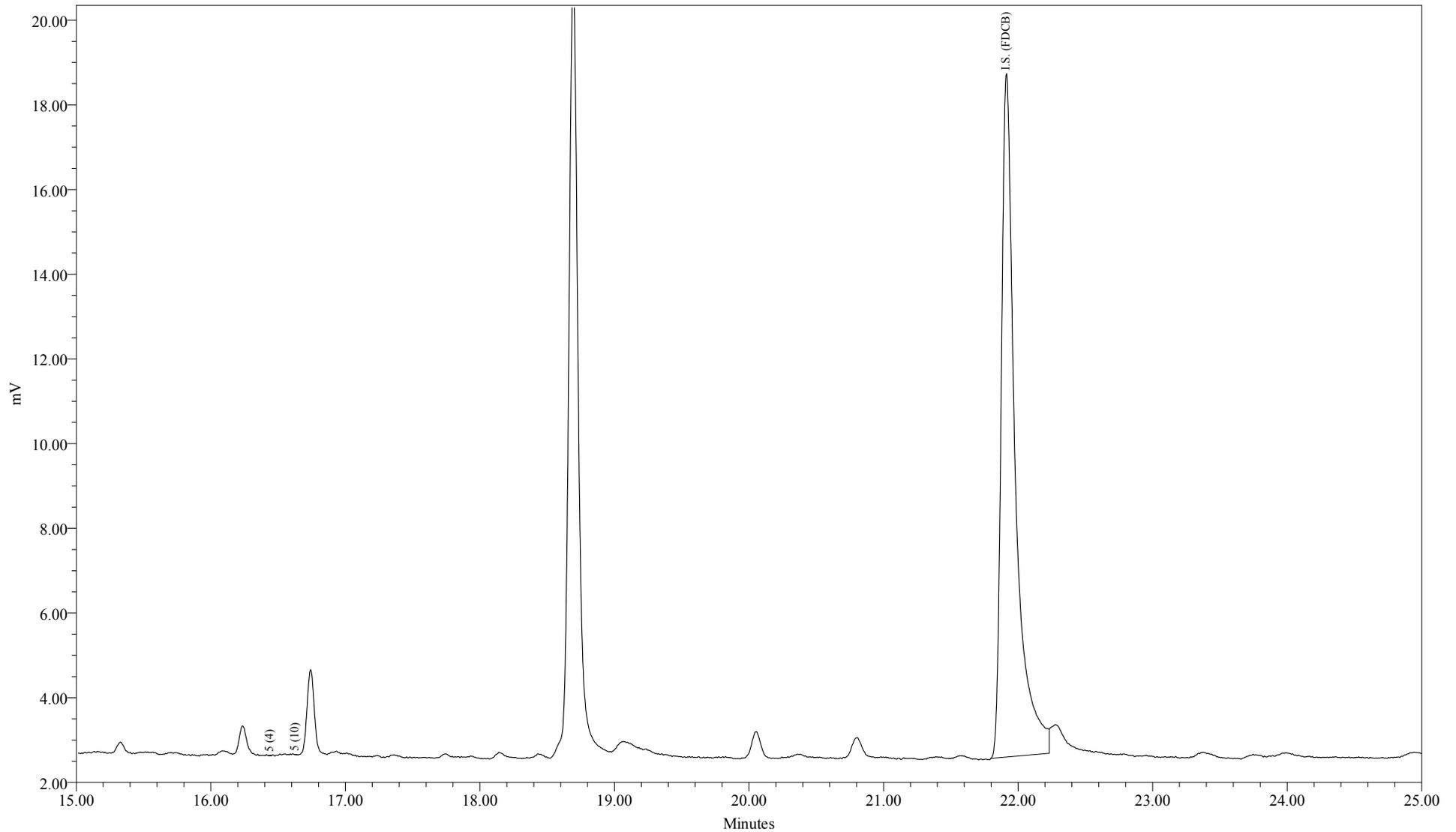
FDCB (I.S.) Peak Area: 116426

Percent Recovery (50 - 150 %): 135

SAMPLE TOTAL PCB CONCENTRATION: <8.04 ng/L U

Visual Aroclor ID: No Aroclor Pattern Detected

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11828BRR2  
Sample ID: METHOD BLANK  
Date Acquired: 6/10/2015 6:10:54 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-5 [m]

**PCB SAMPLE ANALYSIS DATA SHEET**

|                           |  |                     |                                  |
|---------------------------|--|---------------------|----------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>          | SDG No:             | <u>15060107</u>                  |
| ELAP ID No:               | <u>11078</u>                                   | LRF ID:             | <u>LCS-50RR2</u>                 |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                      | Client ID:          | <u>LCS-50(LAB CONTROL SPIKE)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                 | Lab Sample ID:      | <u>AS11828LRR2</u>               |
| % Moisture:               | <u>100</u>                                     | Lab File ID:        | <u>GC24-1179-5</u>               |
| Extraction:               | <u>1L - Solid Phase Extraction</u>             | Date Received:      | <u></u>                          |
| Conc. Extract Volume:     | <u>5000 uL</u>                                 | Date Extracted:     | <u>06/04/2015</u>                |
| Injection Volume:         | <u>0.5 uL</u>                                  | Date/Time Analyzed: | <u>06/12/2015 22:57</u>          |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                            | Dilution Factor:    | <u>1</u>                         |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                        | Sample Cleanup:     | <u>YES</u>                       |
| GC Column:                | <u>Phenomenex ZB-1 30m, 0.25mm ID, 0.25 µm</u> |                     |                                  |

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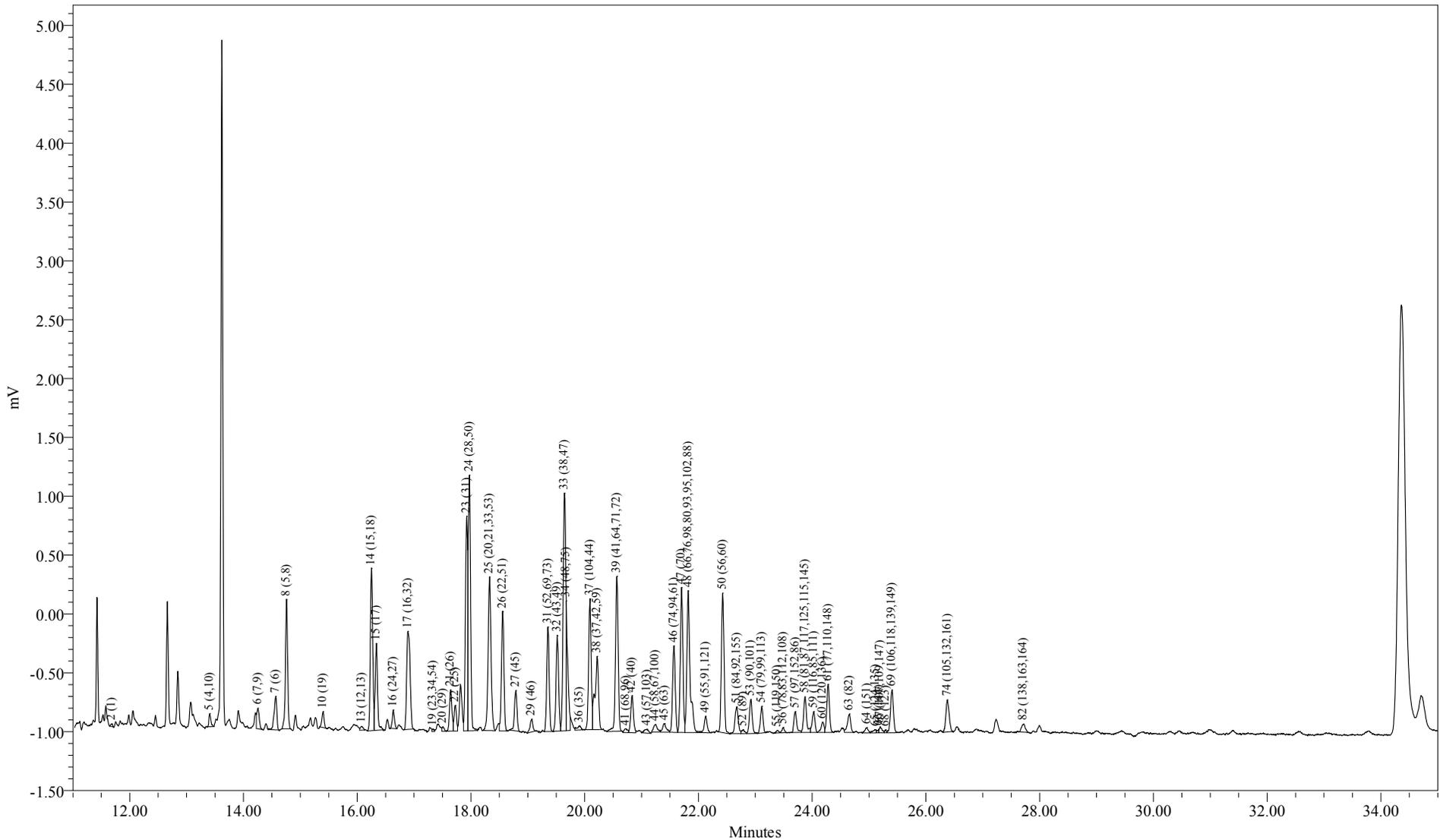
OCN (I.S.) Peak Area: 72862

Percent Recovery (50 - 150 %): 126

SAMPLE TOTAL PCB CONCENTRATION: 266 ng/L

Visual Aroclor ID: PCB Added to Sample

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



Sample Name: AS11828LRR2  
 Sample ID: LAB CONTROL SPIKE  
 Date Acquired: 6/12/2015 10:57:40 PM EDT

Sample Amount (L) : 1.0000  
 Dilution: 5  
 Processing Method: CSGB\_LL1X\_012015  
 LIMS File ID: GC24-1179-5 [m]

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 22:57:40  
 Lab Sample ID: AS11828LRR2  
 LRF ID: LCS-50RR2  
 Lab File ID: GC24-1179-5

Type for Mixed Peak Deconvolution = S

Total PCBs in sample = 266 ng/L

PCB Homolog Distribution

| Homologs | Weight % | Mole % |
|----------|----------|--------|
| Mono     | 0.80     | 1.12   |
| Di       | 18.77    | 22.05  |
| Tri      | 40.50    | 41.49  |
| Tetra    | 31.60    | 28.67  |
| Penta    | 7.23     | 5.84   |
| Hexa     | 1.11     | 0.84   |
| Hepta    | 0.00     | 0.00   |
| Octa     | 0.00     | 0.00   |
| Nona     | 0.00     | 0.00   |
| Deca     | 0.00     | 0.00   |

Nominal 'Aroclor' Distribution

| Aroclor  | Indicator Peak<br>(PK # / IUPAC #) | Amount<br>ng/L | Percent<br>Sediment | Percent<br>Biota |
|----------|------------------------------------|----------------|---------------------|------------------|
| A1221    | 2/001                              | 2.1221         | 6.43                | 6.52             |
| A1242    | 23+24/31+28                        | 28.1603        | 85.4                | 86.5             |
| A1254SED | 61/100                             | 2.7110         | 8.22                |                  |
| A1254BIO | 69+75+82/149+153+138               | 2.2576         |                     | 6.94             |
| A1260    | 102/180                            |                | 0.00                | 0.00             |
| A1268    | 115/194                            |                | 0.00                | 0.00             |

Ortho Cl / biphenyl Residue = 1.47

Meta + Para Cl / biphenyl Residue = 1.72

Total Cl / biphenyl Residue = 3.19

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 22:57:40  
 Lab Sample ID: AS11828LRR2  
 LRF ID: LCS-50RR2  
 Lab File ID: GC24-1179-5

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Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 2                | 11.68          | 188.7            | 48        | 2.12          | 11.2                 | 0.285      | 2.19      | JB   |
| 3                | 12.70          | 188.7            |           |               |                      | 5.51       | 1000      | U    |
| 4                | 12.81          | 188.7            |           |               |                      | 1.15       | 1.28      | U    |
| 5-4              | 16.40          | 223.1            | 1248      | 6.09          | 27.3                 | 0.150      | 0.500     |      |
| 5-10             | 16.62          | 223.1            | 347       | 0.105         | 0.469                | 0.0742     | 0.500     | J    |
| 6                | 14.25          | 223.1            | 537       | 1.57          | 7.04                 | 0.0735     | 0.219     |      |
| 7                | 14.57          | 223.1            | 922       | 5.43          | 24.3                 | 0.311      | 0.347     | B    |
| 8                | 14.76          | 223.1            | 2900      | 32.9          | 147                  | 0.426      | 2.56      | B    |
| 9                | 15.32          | 223.1            |           |               |                      | 0.859      | 25.0      | U    |
| 10               | 15.40          | 257.5            | 365       | 1.49          | 5.78                 | 0.0359     | 0.102     |      |
| 11               | 15.87          | 257.5            |           |               |                      | 0.104      | 25.0      | U    |
| 12               | 15.93          | 223.1            |           |               |                      | 0.396      | 25.0      | U    |
| 13               | 16.08          | 223.1            | 107       | 0.400         | 1.79                 | 0.0396     | 0.0975    |      |
| 14               | 16.25          | 249.0            | 3949      | 13.7          | 55.0                 | 0.132      | 0.676     |      |
| 15               | 16.34          | 257.5            | 2107      | 16.2          | 63.1                 | 0.140      | 0.676     |      |
| 16               | 16.63          | 257.5            | 408       | 1.05          | 4.06                 | 0.0320     | 0.0475    |      |
| 17               | 16.89          | 257.5            | 3470      | 15.0          | 58.2                 | 0.121      | 0.713     | B    |
| 19               | 17.33          | 267.9            | 44        | 0.153         | 0.570                | 0.131      | 25.0      | J    |
| 20               | 17.51          | 257.5            | 98        | 0.338         | 1.31                 | 0.00734    | 0.0194    |      |
| 21               | 17.64          | 257.5            | 1037      | 3.70          | 14.4                 | 0.0343     | 0.132     |      |
| 22               | 17.72          | 257.5            | 639       | 1.82          | 7.07                 | 0.0219     | 0.0585    |      |
| 23               | 17.92          | 257.5            | 4875      | 13.2          | 51.1                 | 0.111      | 0.753     |      |
| 24               | 17.97          | 257.5            | 6261      | 15.0          | 58.2                 | 0.149      | 0.964     |      |
| 25               | 18.33          | 259.5            | 4640      | 14.6          | 56.2                 | 0.142      | 0.726     |      |
| 26               | 18.56          | 258.7            | 3022      | 10.3          | 39.9                 | 0.112      | 0.530     |      |
| 27               | 18.79          | 292.0            | 1061      | 3.19          | 10.9                 | 0.0864     | 0.163     |      |
| 28               | 18.93          | 257.5            |           |               |                      | 0.156      | 25.0      | U    |
| 29               | 19.07          | 292.0            | 368       | 1.24          | 4.26                 | 0.0356     | 0.0731    |      |
| 30               | 19.18          | 257.5            |           |               |                      | 0.0623     | 25.0      | U    |
| 31               | 19.35          | 292.0            | 2618      | 9.65          | 33.0                 | 0.127      | 0.872     |      |
| 32               | 19.52          | 292.0            | 2538      | 4.78          | 16.4                 | 0.125      | 0.420     |      |
| 33               | 19.65          | 292.0            | 6344      | 8.63          | 29.6                 | 0.0782     | 0.183     |      |
| 34               | 19.67          | 292.0            | 2079      | 4.10          | 14.0                 | 0.0415     | 0.183     |      |
| 35               | 19.85          | 292.0            |           |               |                      | 0.0582     | 25.0      | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 36               | 19.91          | 257.5            | 167       | 0.765         | 2.97                 | 0.0934     | 25.0      | J    |
| 37               | 20.09          | 292.0            | 3431      | 8.35          | 28.6                 | 0.251      | 0.786     |      |
| 38               | 20.22          | 272.4            | 2717      | 8.63          | 31.7                 | 0.122      | 0.475     | B    |
| 39               | 20.56          | 292.0            | 4299      | 8.36          | 28.6                 | 0.102      | 0.749     |      |
| 41               | 20.72          | 326.4            | 131       | 0.400         | 1.23                 | 0.101      | 25.0      | J    |
| 42               | 20.83          | 292.0            | 1017      | 2.48          | 8.50                 | 0.0358     | 0.172     | B    |
| 43               | 21.09          | 298.9            | 177       | 0.397         | 1.33                 | 0.142      | 25.0      | J    |
| 44               | 21.24          | 298.9            | 304       | 0.514         | 1.72                 | 0.0226     | 0.0402    |      |
| 45               | 21.41          | 292.0            | 325       | 0.609         | 2.08                 | 0.0333     | 0.0384    |      |
| 46               | 21.57          | 292.0            | 2380      | 3.08          | 10.6                 | 0.0721     | 0.347     | B    |
| 47               | 21.70          | 292.0            | 3871      | 6.32          | 21.6                 | 0.106      | 0.621     |      |
| 48               | 21.82          | 293.5            | 4712      | 11.5          | 39.2                 | 0.216      | 1.32      |      |
| 49               | 22.13          | 324.7            | 498       | 1.18          | 3.63                 | 0.0239     | 0.0932    | B    |
| 50               | 22.43          | 292.0            | 3836      | 6.45          | 22.1                 | 0.122      | 0.640     |      |
| 51               | 22.67          | 326.4            | 904       | 3.92          | 12.0                 | 0.0989     | 0.329     | B    |
| 52               | 22.79          | 326.4            | 128       | 0.314         | 0.963                | 0.0132     | 0.0366    | B    |
| 53               | 22.92          | 326.4            | 988       | 1.88          | 5.77                 | 0.0430     | 0.329     |      |
| 54               | 23.11          | 326.4            | 709       | 0.918         | 2.81                 | 0.0172     | 0.135     |      |
| 55               | 23.38          | 326.4            | 74        | 0.0690        | 0.211                | 0.00657    | 0.0102    |      |
| 56               | 23.49          | 326.4            | 125       | 0.282         | 0.865                | 0.0251     | 0.0548    |      |
| 57               | 23.70          | 326.4            | 609       | 0.937         | 2.87                 | 0.0653     | 0.102     | B    |
| 58               | 23.87          | 326.4            | 1061      | 1.88          | 5.77                 | 0.0479     | 0.212     | B    |
| 59               | 24.03          | 326.4            | 601       | 0.890         | 2.73                 | 0.0224     | 0.128     | B    |
| 60               | 24.18          | 360.9            | 314       | 0.539         | 1.49                 | 0.0379     | 0.137     |      |
| 61               | 24.28          | 326.4            | 1353      | 2.71          | 8.31                 | 0.0690     | 0.389     |      |
| 62               | 24.57          | 360.9            |           |               |                      | 0.116      | 25.0      | U    |
| 63               | 24.66          | 326.4            | 625       | 1.07          | 3.26                 | 0.0268     | 0.0804    |      |
| 64               | 24.96          | 360.9            | 180       | 0.294         | 0.813                | 0.0497     | 0.311     | JB   |
| 65               | 25.11          | 350.5            | 109       | 0.111         | 0.318                | 0.0150     | 0.0530    |      |
| 66               | 25.17          | 360.9            | 54        | 0.169         | 0.469                | 0.0349     | 0.110     |      |
| 67               | 25.19          | 336.8            | 167       | 0.357         | 1.06                 | 0.0198     | 0.0475    |      |
| 68               | 25.29          | 326.4            | 50        |               |                      | 0.158      | 25.0      | U    |
| 69               | 25.40          | 337.5            | 1326      | 1.93          | 5.72                 | 0.154      | 0.731     |      |
| 70               | 25.52          | 360.9            |           |               |                      | 0.102      | 25.0      | U    |
| 71               | 25.80          | 347.8            |           |               |                      | 0.0342     | 0.0369    | U    |
| 72               | 26.01          | 336.8            |           |               |                      | 0.00525    | 0.0106    | U    |
| 73               | 26.27          | 360.9            |           |               |                      | 0.0258     | 0.0713    | U    |
| 74               | 26.38          | 347.8            | 1078      | 1.33          | 3.81                 | 0.0335     | 0.248     |      |
| 75               | 26.55          | 360.9            |           |               |                      | 0.0829     | 0.538     | U    |
| 76               | 26.65          | 360.9            |           |               |                      | 0.0915     | 25.0      | U    |
| 77               | 27.08          | 360.9            |           |               |                      | 0.0445     | 0.311     | U    |
| 78               | 27.16          | 395.3            |           |               |                      | 0.0542     | 0.267     | U    |
| 79               | 27.37          | 360.9            |           |               |                      | 0.0298     | 0.0298    | U    |
| 80               | 27.52          | 360.9            |           |               |                      | 0.00954    | 0.0475    | U    |
| 82               | 27.71          | 360.9            | 312       | 0.328         | 0.909                | 0.0665     | 0.493     | J    |
| 83               | 27.91          | 360.9            |           |               |                      | 0.0310     | 0.0457    | U    |
| 84               | 28.10          | 360.9            |           |               |                      | 0.00213    | 0.00473   | U    |
| 85               | 28.45          | 395.3            |           |               |                      | 0.0563     | 0.201     | U    |
| 87               | 28.75          | 395.3            |           |               |                      | 0.0298     | 0.0731    | U    |
| 88               | 28.90          | 395.3            |           |               |                      | 0.0923     | 0.658     | U    |
| 89               | 29.03          | 360.9            |           |               |                      | 0.0213     | 0.0366    | U    |
| 90               | 29.20          | 395.3            |           |               |                      | 0.0576     | 0.311     | U    |

| DB-1 Peak Number | Retention Time | Molecular Weight | Peak Area | Amount (ng/L) | Sample (Picomoles/L) | MDL (ng/L) | RL (ng/L) | Qual |
|------------------|----------------|------------------|-----------|---------------|----------------------|------------|-----------|------|
| 91               | 29.46          | 360.9            |           |               |                      | 0.0299     | 0.0299    | U    |
| 92               | 29.80          | 394.3            |           |               |                      | 0.0169     | 0.0859    | U    |
| 93               | 30.17          | 394.3            |           |               |                      | 0.0993     | 0.585     | U    |
| 94               | 30.43          | 394.3            |           |               |                      | 0.0637     | 0.311     | U    |
| 95               | 30.74          | 382.2            |           |               |                      | 0.0406     | 0.144     | U    |
| 96               | 30.99          | 429.8            |           |               |                      | 0.00708    | 0.0121    | U    |
| 98               | 31.16          | 395.3            |           |               |                      | 0.00746    | 0.0139    | U    |
| 99               | 31.52          | 429.8            |           |               |                      | 0.0412     | 0.0713    | U    |
| 100              | 31.76          | 395.3            |           |               |                      | 0.0559     | 0.102     | U    |
| 101              | 32.06          | 429.8            |           |               |                      | 0.0147     | 0.0402    | U    |
| 102              | 32.23          | 395.3            |           |               |                      | 0.156      | 1.11      | U    |
| 103              | 32.48          | 395.3            |           |               |                      | 0.0395     | 0.0768    | U    |
| 104              | 32.79          | 395.3            |           |               |                      | 0.0224     | 0.0438    | U    |
| 105              | 33.15          | 429.8            |           |               |                      | 0.0159     | 0.0786    | U    |
| 106              | 34.28          | 395.3            |           |               |                      | 0.182      | 0.234     | U    |
| 107              | 34.54          | 395.3            |           |               |                      | 0.0564     | 0.0768    | U    |
| 108              | 35.39          | 429.8            |           |               |                      | 0.0234     | 0.0438    | U    |
| 109              | 35.63          | 429.8            |           |               |                      | 0.0961     | 0.768     | U    |
| 110              | 36.15          | 429.8            |           |               |                      | 0.176      | 0.786     | U    |
| 111              | 37.29          | 395.3            |           |               |                      | 0.0207     | 0.0207    | U    |
| 112              | 38.84          | 429.8            |           |               |                      | 0.0217     | 0.101     | U    |
| 113              | 39.35          | 464.2            |           |               |                      | 0.0429     | 0.0903    | U    |
| 114              | 40.26          | 464.2            |           |               |                      | 0.0138     | 0.0340    | U    |
| 115              | 41.66          | 429.8            |           |               |                      | 0.0710     | 0.329     | U    |
| 116              | 42.54          | 429.8            |           |               |                      | 0.0762     | 0.0762    | U    |
| 117              | 47.61          | 464.2            |           |               |                      | 0.0775     | 0.124     | U    |
| 118              | 53.55          | 498.6            |           |               |                      | 0.00690    | 0.00690   | U    |

Total Concentration = 266 ng/L

8.04 32.2

Total Nanomoles = 1.007

Average Molecular Weight = 263.9

Number of Calibrated Peaks Found = 60

OCN Internal Standard Retention Time = 46.00 minutes

OCN Internal Standard Peak Area = 72861.9

FDBC Internal Standard Retention Time = 21.91 minutes

FDBC Internal Standard Peak Area = 106574.5

**PCB Congener Amount Report**

Customer: GENERAL ELECTRIC COMPANY  
 Sample Description: LAB CONTROL SPIKE  
 Comment: HUDSON RIVER RAMP;COC150603153100PACE  
 Date Acquired: 06/12/2015 22:57:40  
 Lab Sample ID: AS11828LRR2  
 LRF ID: LCS-50RR2  
 Lab File ID: GC24-1179-5

Type for Mixed Peak Deconvolution = S

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT    | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|--------|------------------------|----------------|--------------|
| 2                | 11.68          | 1:1       | 001                  | 0.2539 | 2                      | 0.799          | 1.117        |
| 3                | 12.70          | 1:0       | 002                  |        | 3                      | -              | -            |
| 4                | 12.81          | 1:0       | 003                  |        | 4                      | -              | -            |
| 5-4              | 16.40          | 2:2       | 004                  | 0.3565 | 2-2                    | 2.294          | 2.714        |
| 5-10             | 16.62          | 2:2       | 010                  | 0.3613 | 26                     | 0.039          | 0.047        |
| 6                | 14.25          | 2:1       | 007 009              | 0.3098 | 24; 25                 | 0.591          | 0.699        |
| 7                | 14.57          | 2:1       | 006                  | 0.3167 | 2-3                    | 2.043          | 2.417        |
| 8                | 14.76          | 2:1       | 005 008              | 0.3209 | 23; 2-4                | 12.371         | 14.636       |
| 9                | 15.32          | 2:0       | 014                  |        | 35                     | -              | -            |
| 10               | 15.40          | 3:3       | 019                  | 0.3348 | 26-2                   | 0.560          | 0.574        |
| 11               | 15.87          | 3:2       | 030                  |        | 246                    | -              | -            |
| 12               | 15.93          | 2:0       | 011                  |        | 3-3                    | -              | -            |
| 13               | 16.08          | 2:0       | 012 013              | 0.3496 | 34; 3-4                | 0.151          | 0.178        |
| 14               | 16.25          | 2:0 3:2   | 015 018              | 0.3533 | 4-4; 25-2              | 5.155          | 5.465        |
| 15               | 16.34          | 3:2       | 017                  | 0.3552 | 24-2                   | 6.113          | 6.266        |
| 16               | 16.63          | 3:2       | 024 027              | 0.3615 | 236; 26-3              | 0.394          | 0.404        |
| 17               | 16.89          | 3:2       | 016 032              | 0.3672 | 23-2; 26-4             | 5.645          | 5.786        |
| 19               | 17.33          | 3:1 4:4   | 023 034 054          | 0.3767 | 235; 35-2; 26-26       | 0.058          | 0.057        |
| 20               | 17.51          | 3:1       | 029                  | 0.3807 | 245                    | 0.127          | 0.131        |
| 21               | 17.64          | 3:1       | 026                  | 0.3835 | 25-3                   | 1.392          | 1.427        |
| 22               | 17.72          | 3:1       | 025                  | 0.3852 | 24-3                   | 0.685          | 0.703        |
| 23               | 17.92          | 3:1       | 031                  | 0.3896 | 25-4                   | 4.954          | 5.078        |
| 24               | 17.97          | 3:1 4:3   | 028 050              | 0.3907 | 24-4; 246-2            | 5.644          | 5.785        |
| 25               | 18.33          | 3:1 4:3   | 020 021 033 053      | 0.3985 | 23-3; 234; 34-2; 25-26 | 5.489          | 5.583        |
| 26               | 18.56          | 3:1 4:3   | 022 051              | 0.4035 | 23-4; 24-26            | 3.880          | 3.959        |
| 27               | 18.79          | 4:3       | 045                  | 0.4085 | 236-2                  | 1.199          | 1.084        |
| 28               | 18.93          | 3:0       | 036                  |        | 35-3                   | -              | -            |
| 29               | 19.07          | 4:3       | 046                  | 0.4146 | 23-26                  | 0.468          | 0.423        |
| 30               | 19.18          | 3:0       | 039                  |        | 35-4                   | -              | -            |
| 31               | 19.35          | 4:2       | 052 069 073          | 0.4207 | 25-25; 246-3; 26-35    | 3.632          | 3.283        |
| 32               | 19.52          | 4:2       | 043 049              | 0.4243 | 235-2; 24-25           | 1.799          | 1.626        |
| 33               | 19.65          | 4:2       | 038 047              | 0.4272 | 345; 24-24             | 3.248          | 2.936        |
| 34               | 19.67          | 4:2       | 048 075              | 0.4276 | 245-2; 246-4           | 1.542          | 1.394        |
| 35               | 19.85          | 4:2       | 062 065              |        | 2346; 2356             | -              | -            |
| 36               | 19.91          | 3:0       | 035                  | 0.4328 | 34-3                   | 0.288          | 0.295        |
| 37               | 20.09          | 5:4 4:2   | 104 044              | 0.4367 | 246-26; 23-25          | 3.144          | 2.842        |
| 38               | 20.22          | 3:0 4:2   | 037 042 059          | 0.4396 | 34-4; 23-24; 236-3     | 3.248          | 3.147        |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup>            | RRT    | Congeners <sup>3</sup>                                      | Weight Percent | Mole Percent |
|------------------|----------------|-----------|---------------------------------|--------|---|----------------|--------------|
| 39               | 20.56          | 4:2       | 041 064 071 072                 | 0.4470 | 234-2; 236-4; 26-34; 25-35                                  | 3.148          | 2.845        |
| 41               | 20.72          | 5:4       | 068 096                         | 0.4504 | 24-35; 236-26   | 0.151          | 0.122        |
| 42               | 20.83          | 4:2       | 040                             | 0.4528 | 23-23   | 0.934          | 0.844        |
| 43               | 21.09          | 4:1 5:3   | 057 103                         | 0.4585 | 235-3; 246-25   | 0.149          | 0.132        |
| 44               | 21.24          | 4:1 5:3   | 058 067 100                     | 0.4617 | 23-35; 245-3; 246-24  | 0.194          | 0.171        |
| 45               | 21.41          | 4:1       | 063                             | 0.4654 | 235-4   | 0.229          | 0.207        |
| 46               | 21.57          | 4:1 5:3   | 074 094 061                     | 0.4689 | 245-4; 235-26; 2345   | 1.160          | 1.049        |
| 47               | 21.70          | 4:1       | 070                             | 0.4717 | 25-34   | 2.379          | 2.150        |
| 48               | 21.82          | 4:1 5:3   | 066 076 098 080 093 095 102 088 | 0.4743 | 24-34; 345-2; 246-23; 35-35; 2356-2; 236-25; 245-26; 2346-2 | 4.333          | 3.896        |
| 49               | 22.13          | 4:1 5:3   | 055 091 121                     | 0.4811 | 234-3; 236-24; 246-35                                       | 0.443          | 0.360        |
| 50               | 22.43          | 4:1       | 056 060                         | 0.4876 | 23-34; 234-4  | 2.427          | 2.194        |
| 51               | 22.67          | 5:3 6:4   | 084 092 155                     | 0.4928 | 236-23; 235-25; 246-246                                     | 1.477          | 1.194        |
| 52               | 22.79          | 5:3       | 089                             | 0.4954 | 234-26  | 0.118          | 0.096        |
| 53               | 22.92          | 5:2       | 090 101                         | 0.4983 | 235-24; 245-25  | 0.709          | 0.574        |
| 54               | 23.11          | 5:2       | 079 099 113                     | 0.5024 | 34-35; 245-24; 236-35                                       | 0.346          | 0.280        |
| 55               | 23.38          | 5:2 6:4   | 119 150                         | 0.5083 | 246-34; 236-246   | 0.026          | 0.021        |
| 56               | 23.49          | 5:2       | 078 083 112 108                 | 0.5107 | 345-3; 235-23; 2356-3; 2346-3                               | 0.106          | 0.086        |
| 57               | 23.70          | 5:2 6:4   | 097 152 086                     | 0.5152 | 245-23; 2356-26; 2345-2                                     | 0.353          | 0.285        |
| 58               | 23.87          | 5:2       | 081 087 117 125 115 145         | 0.5189 | 345-4; 234-25; 2356-4; 345-26; 2346-4; 2346-26              | 0.708          | 0.573        |
| 59               | 24.03          | 5:2       | 116 085 111                     | 0.5224 | 23456; 234-24; 235-35                                       | 0.335          | 0.271        |
| 60               | 24.18          | 6:4       | 120 136                         | 0.5257 | 245-35; 236-236   | 0.203          | 0.148        |
| 61               | 24.28          | 5:2       | 077 110 148                     | 0.5278 | 34-34; 236-34; 235-246                                      | 1.020          | 0.825        |
| 62               | 24.57          | 6:3       | 154                             |        | 245-246   | -              | -            |
| 63               | 24.66          | 5:2       | 082                             | 0.5361 | 234-23  | 0.401          | 0.324        |
| 64               | 24.96          | 6:3       | 151                             | 0.5426 | 2356-25   | 0.110          | 0.081        |
| 65               | 25.11          | 5:1 6:3   | 124 135                         | 0.5459 | 345-25; 235-236   | 0.042          | 0.032        |
| 66               | 25.17          | 6:3       | 144                             | 0.5472 | 2346-25   | 0.064          | 0.047        |
| 67               | 25.19          | 5:1 6:3   | 107 109 147                     | 0.5476 | 234-35; 235-34; 2356-24                                     | 0.134          | 0.105        |
| 68               | 25.29          | 5:1       | 123                             |        | 345-24  | -              | -            |
| 69               | 25.40          | 5:1 6:3   | 106 118 139 149                 | 0.5522 | 2345-3; 245-34; 2346-24; 236-245                            | 0.726          | 0.568        |
| 70               | 25.52          | 6:3       | 140                             |        | 234-246   | -              | -            |
| 71               | 25.80          | 5:1 6:3   | 114 134 143                     |        | 2345-4; 2356-23; 2345-26                                    | -              | -            |
| 72               | 26.01          | 5:1 6:3   | 122 131 133 142                 |        | 345-23; 2346-23; 235-235; 23456-2                           | -              | -            |
| 73               | 26.27          | 6:2       | 146 165 188                     |        | 235-245; 2356-35; 2356-246                                  | -              | -            |
| 74               | 26.38          | 5:1 6:3   | 105 132 161                     | 0.5735 | 234-34; 234-236; 2346-35                                    | 0.499          | 0.379        |
| 75               | 26.55          | 6:2       | 153                             |        | 245-245   | -              | -            |
| 76               | 26.65          | 6:2       | 127 168 184                     |        | 345-35; 246-345; 2346-246                                   | -              | -            |
| 77               | 27.08          | 6:2       | 141                             |        | 2345-25   | -              | -            |
| 78               | 27.16          | 7:4       | 179                             |        | 2356-236  | -              | -            |
| 79               | 27.37          | 6:2       | 137                             |        | 2345-24   | -              | -            |
| 80               | 27.52          | 6:2 7:4   | 130 176                         |        | 234-235; 2346-236   | -              | -            |
| 82               | 27.71          | 6:2       | 138 163 164                     | 0.6024 | 234-245; 2356-34; 236-345                                   | 0.123          | 0.090        |
| 83               | 27.91          | 6:2       | 158 160 186                     |        | 2346-34; 23456-3; 23456-26                                  | -              | -            |
| 84               | 28.10          | 6:2       | 126 129                         |        | 345-34; 2345-23   | -              | -            |
| 85               | 28.45          | 7:3       | 166 178                         |        | 23456-4; 2356-235   | -              | -            |
| 87               | 28.75          | 7:3       | 175 159                         |        | 2346-235; 2345-35   | -              | -            |
| 88               | 28.90          | 7:3       | 182 187                         |        | 2345-246; 2356-245  | -              | -            |
| 89               | 29.03          | 6:2       | 128 162                         |        | 234-234; 235-345  | -              | -            |
| 90               | 29.20          | 7:3       | 183                             |        | 2346-245  | -              | -            |
| 91               | 29.46          | 6:1       | 167                             |        | 245-345   | -              | -            |
| 92               | 29.80          | 7:3       | 185                             |        | 23456-25  | -              | -            |
| 93               | 30.17          | 7:3       | 174 181                         |        | 2345-236; 23456-24  | -              | -            |
| 94               | 30.43          | 7:3       | 177                             |        | 2356-234  | -              | -            |
| 95               | 30.74          | 6:1 7:3   | 156 171                         |        | 2345-34; 2346-234   | -              | -            |
| 96               | 30.99          | 8:4       | 157 202                         |        | 234-345; 2356-2356  | -              | -            |
| 98               | 31.16          | 7:3       | 173                             |        | 23456-23  | -              | -            |
| 99               | 31.52          | 8:4       | 201                             |        | 2346-2356   | -              | -            |
| 100              | 31.76          | 7:2       | 172 204                         |        | 2345-235; 23456-246   | -              | -            |
| 101              | 32.06          | 8:4       | 192 197                         |        | 23456-35; 2346-2346   | -              | -            |
| 102              | 32.23          | 7:2       | 180                             |        | 2345-245  | -              | -            |
| 103              | 32.48          | 7:2       | 193                             |        | 2356-345  | -              | -            |
| 104              | 32.79          | 7:2       | 191                             |        | 2346-345  | -              | -            |
| 105              | 33.15          | 8:4       | 200 169                         |        | 23456-236; 345-345  | -              | -            |

Note: This is not a NYSDOH ELAP certified method.

| DB-1 Peak Number | Retention Time | T-CL:O-CL | IUPAC # <sup>2</sup> | RRT | Congeners <sup>3</sup> | Weight Percent | Mole Percent |
|------------------|----------------|-----------|----------------------|-----|------------------------|----------------|--------------|
| 106              | 34.28          | 7:2       | <b>170</b>           |     | 2345-234               | -              | -            |
| 107              | 34.54          | 7:2       | <b>190</b>           |     | 23456-34               | -              | -            |
| 108              | 35.39          | 8:3       | <b>198</b>           |     | 23456-235              | -              | -            |
| 109              | 35.63          | 8:3       | <b>199</b>           |     | 2345-2356              | -              | -            |
| 110              | 36.15          | 8:3       | <b>196 203</b>       |     | 2345-2346; 23456-245   | -              | -            |
| 111              | 37.29          | 7:1       | <b>189</b>           |     | 2345-345               | -              | -            |
| 112              | 38.84          | 8:3       | <b>195</b>           |     | 23456-234              | -              | -            |
| 113              | 39.35          | 9:4       | <b>208</b>           |     | 23456-2356             | -              | -            |
| 114              | 40.26          | 9:4       | <b>207</b>           |     | 23456-2346             | -              | -            |
| 115              | 41.66          | 8:2       | <b>194</b>           |     | 2345-2345              | -              | -            |
| 116              | 42.54          | 8:2       | <b>205</b>           |     | 23456-345              | -              | -            |
| 117              | 47.61          | 9:3       | <b>206</b>           |     | 23456-2345             | -              | -            |
| 118              | 53.55          | 10:4      | <b>209</b>           |     | 23456-23456            | -              | -            |

This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace analytical makes no claim to NYS-DOH ELAP Certification for this method.

Concentration = 266 ng/L

Total Nanomoles = 1.007

Average Molecular Weight = 263.9

Number of Calibrated Peaks Found = 60

- <sup>1</sup> - Note that five DB-1 peaks (PK18, PK40, PK81, PK86, PK97) have been removed from the DB-1 peak numbering scheme. The following low level congeners that were designated as separately eluting peaks have been determined to co-elute with another congener. The DB-1 peak numbers are no longer required for these congeners, but the original DB-1 numbering system has remained intact for all other peaks.

PK 18 (23) now elutes in PK 19 (23,34,54)  
 PK 40 (68) now elutes in PK 41 (68,96)  
 PK 86 (166) now elutes in PK 85 (166,178)  
 PK 97 (157) now elutes in PK 96 (157,202)

- <sup>2</sup> - IUPAC congener numbers listed in **boldface** font were found to be present in at least one of the Aroclors at or above 0.05 weight percent. These congeners should be considered the primary congeners existing in a peak composed of co-eluting congeners. IUPAC congener numbers listed in *italic* font were absent or present below 0.05 weight percent.
- <sup>3</sup> - PCB congener identification is denoted by position of the chlorine atoms on each ring of the biphenyl molecule. Designation used in this report has unprimed chlorines separated from primed chlorines by a hyphen that represents separation of the biphenyl rings.
- <sup>4</sup> - DB-1 peaks may include one or more coeluting PCB congeners. In the case of some peaks, the congeners assigned to the peak consist of coeluting congeners and a congener that is resolved or is just slightly out of the normal retention time window of  $\pm 0.07$  minutes. If detection of one of the resolved congeners occurs, a comment will be included in the report narrative indicating the assigned DB-1 peak includes the presence of the resolved congener. The DB-1 peaks consisting of coeluting congeners and a congener that is resolved are as follows:

| DB-1 Peak  | Resolved Congener (IUPAC #) |
|--|-----------------------------|
| 37 ( <b>44</b> ,104)                                     | <i>104</i>                  |
| 48 ( <b>66</b> ,76,98,80,93, <b>95</b> , <b>102</b> ,88) | <i>80,88,93</i>             |
| 56 (78, <b>83</b> ,112,108)                              | <i>108</i>                  |
| 61 ( <b>77</b> , <b>110</b> ,148)                        | <b>77</b>                   |
| 72 ( <b>122</b> ,131,133,142)                            | <b>122</b>                  |
| 89 ( <b>128</b> ,162)                                    | <i>162</i>                  |
| 105( <b>200</b> ,169)                                    | <i>169</i>                  |

<sup>5</sup>

**Note: This is not a NYSDOH ELAP certified method.**

**PCB SAMPLE ANALYSIS DATA SHEET**

|                           |   |                     |                                  |
|---------------------------|---|---------------------|----------------------------------|
| Laboratory Name:          | <u>Pace Analytical Services, Inc.</u>               | SDG No:             | <u>15060107</u>                  |
| ELAP ID No:               | <u>11078</u>  | LRF ID:             | <u>LCS-50RR2</u>                 |
| Matrix:                   | <u>ORGANIC FREE WATER</u>                           | Client ID:          | <u>LCS-50(LAB CONTROL SPIKE)</u> |
| Sample Wt(Dry)/Vol:       | <u>1000 mL</u>                                      | Lab Sample ID:      | <u>AS11828LRR3</u>               |
| % Moisture:               | <u>100</u>  | Lab File ID:        | <u>GC30-457-6</u>                |
| Extraction:               | <u>1L - Solid Phase Extraction</u>                  | Date Received:      | <u></u>                          |
| Conc. Extract Volume:     | <u>5000 uL</u>                                      | Date Extracted:     | <u>06/04/2015</u>                |
| Injection Volume:         | <u>1.0 uL</u>                                       | Date/Time Analyzed: | <u>06/10/2015 18:58</u>          |
| Analytical SOP Reference: | <u>SOP NE294_02</u>                                 | Dilution Factor:    | <u>1</u>                         |
| Extraction SOP Reference: | <u>SOP NE178_04.DOC</u>                             | Sample Cleanup:     | <u>YES</u>                       |
| GC Column:                | <u>Varian CP-SIL 5/C18 50m, 0.25 mm ID, 0.10 µm</u> |                     |                                  |

18

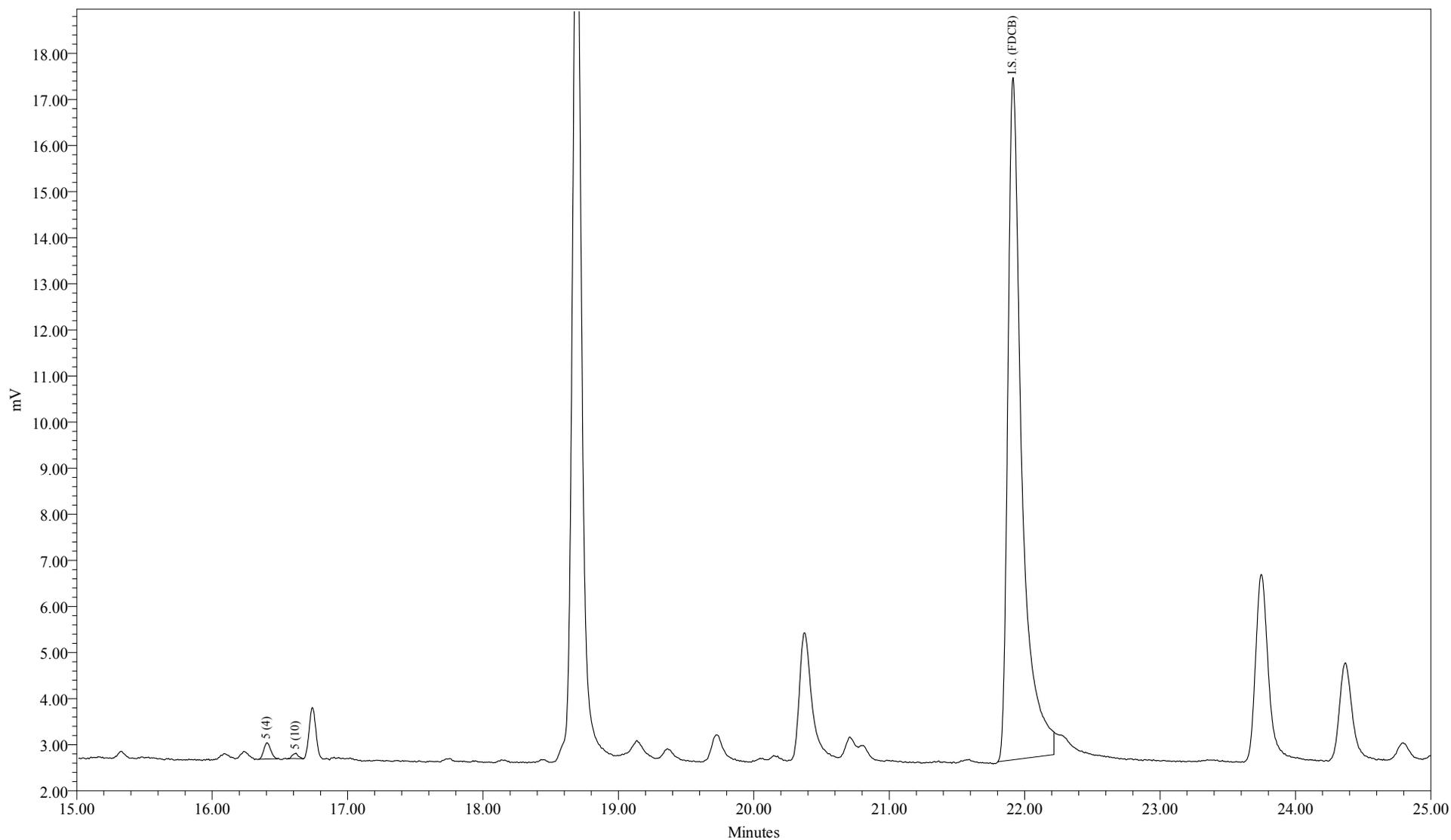
FDCB (I.S.) Peak Area: 106575

Percent Recovery (50 - 150 %): 124

SAMPLE TOTAL PCB CONCENTRATION: 266 ng/L

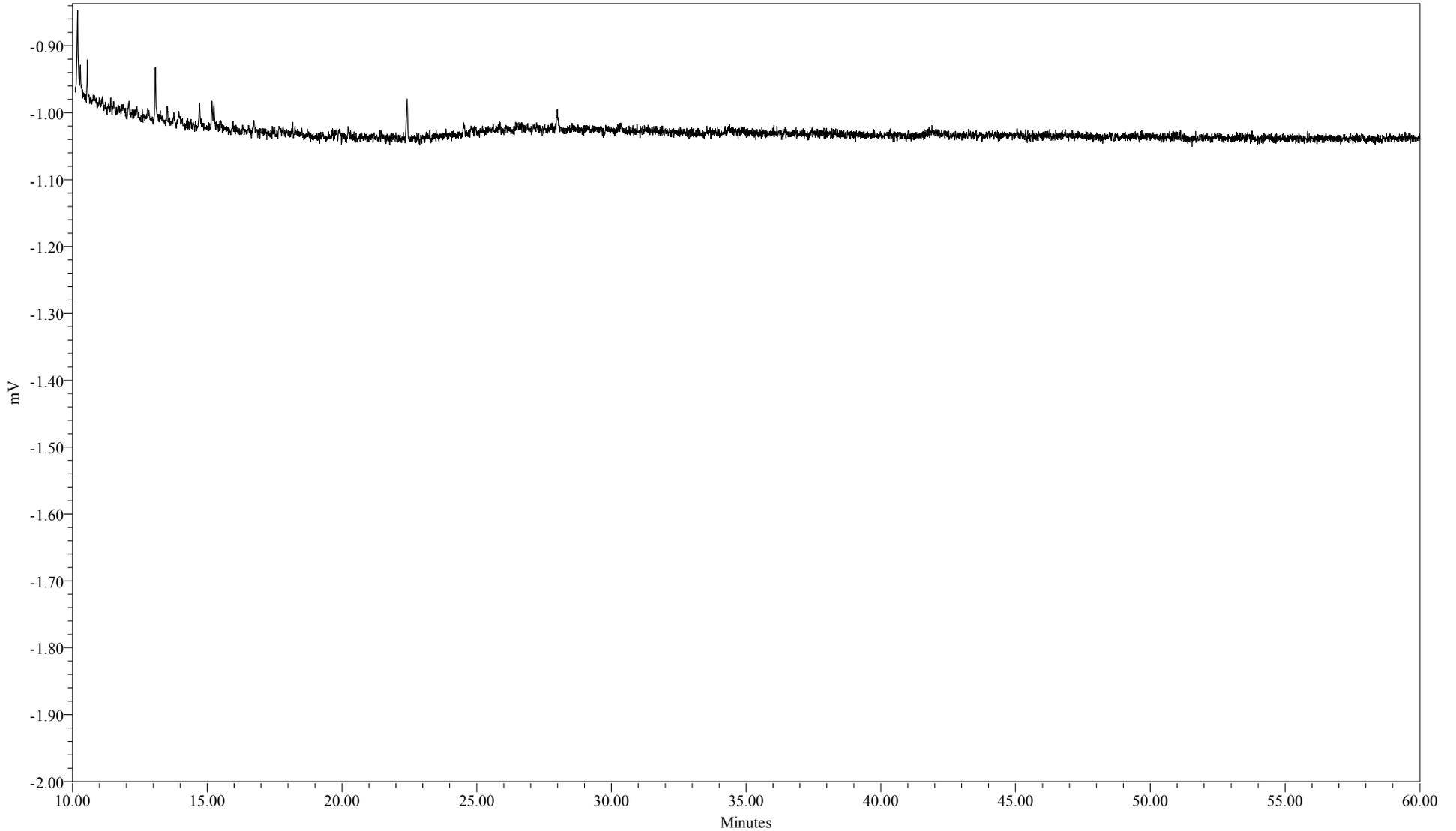
Visual Aroclor ID: PCB Added to Sample

Note: This is not a NYSDOH ELAP certified method. This analysis method is not approved by NYS-DOH ELAP, this method is performed for this project at the request of the customer under direction of the appropriate regulatory agency. Please contact Pace Analytical for documentation. Pace Analytical makes no claim to NYS-DOH ELAP Certification for this method.



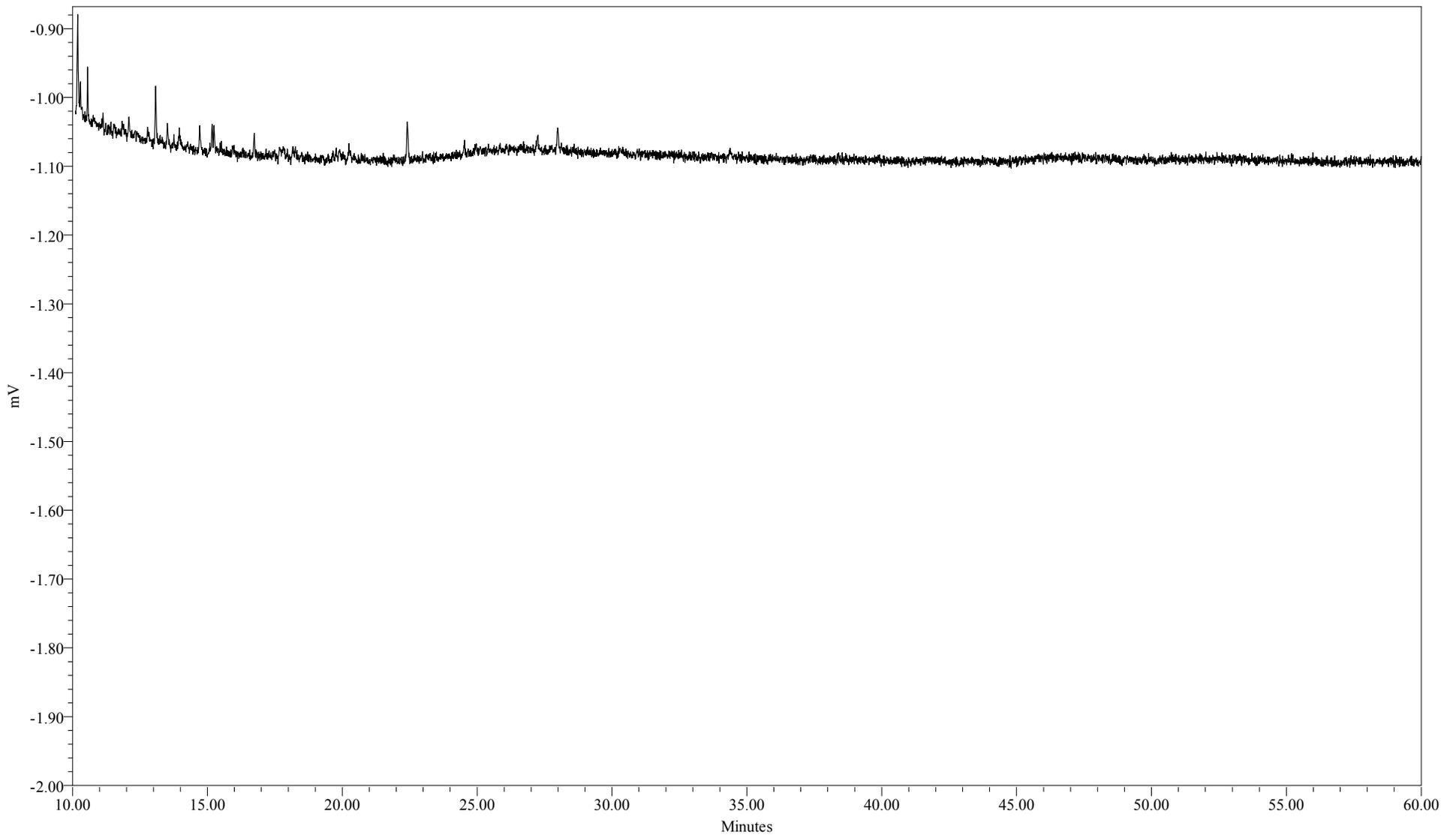
Sample Name: AS11828LRR3  
Sample ID: LAB CONTROL SPIKE  
Date Acquired: 6/10/2015 6:58:25 PM EDT

Sample Amount (L) : 1.0000  
Dilution: 5  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-6 [m]



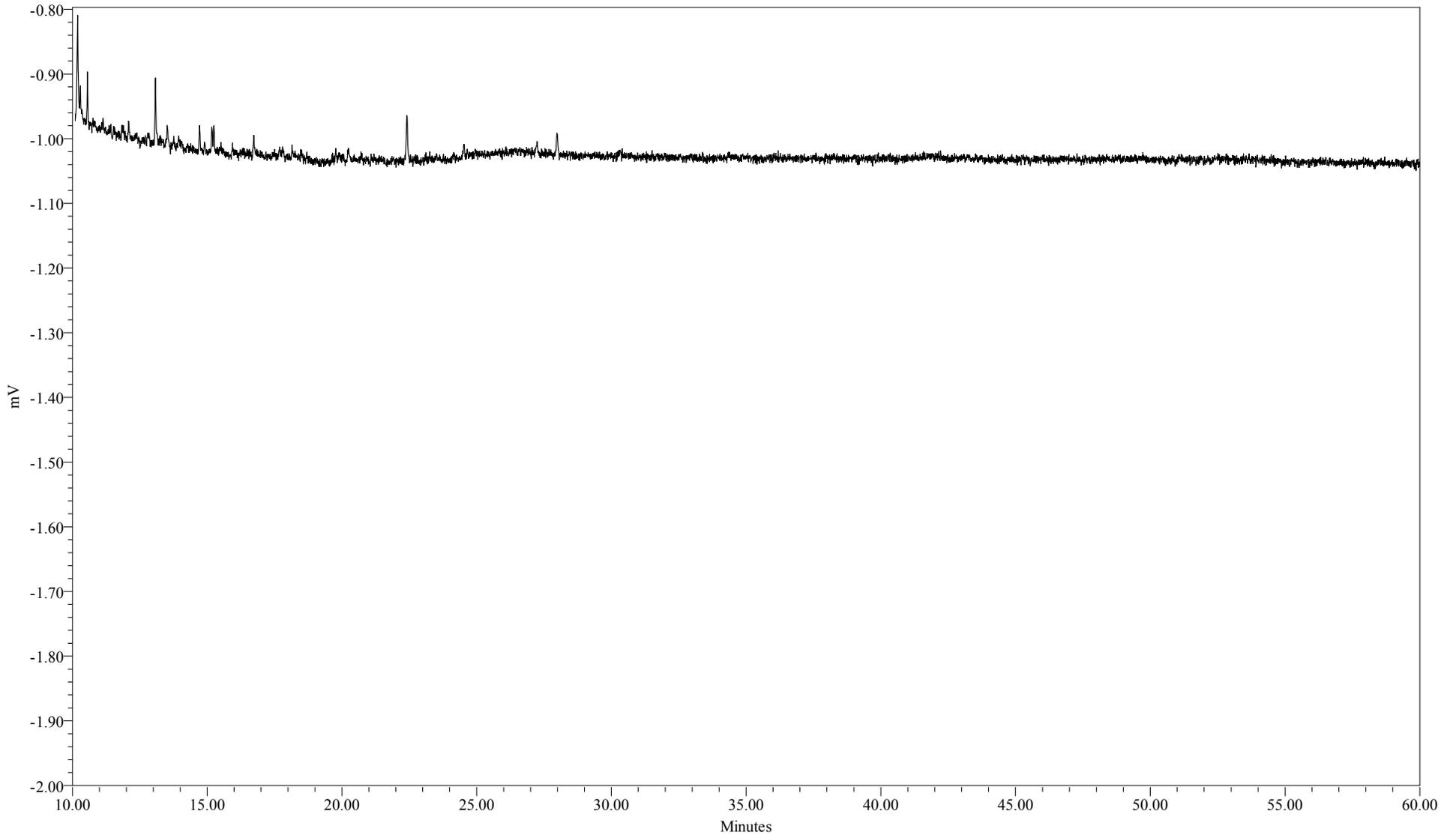
Sample Name: 150610B02  
Sample ID: HEXANE BLANK  
Date Acquired: 6/10/2015 4:04:12 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_012015  
LIMS File ID: GC24-1177-2 [A]



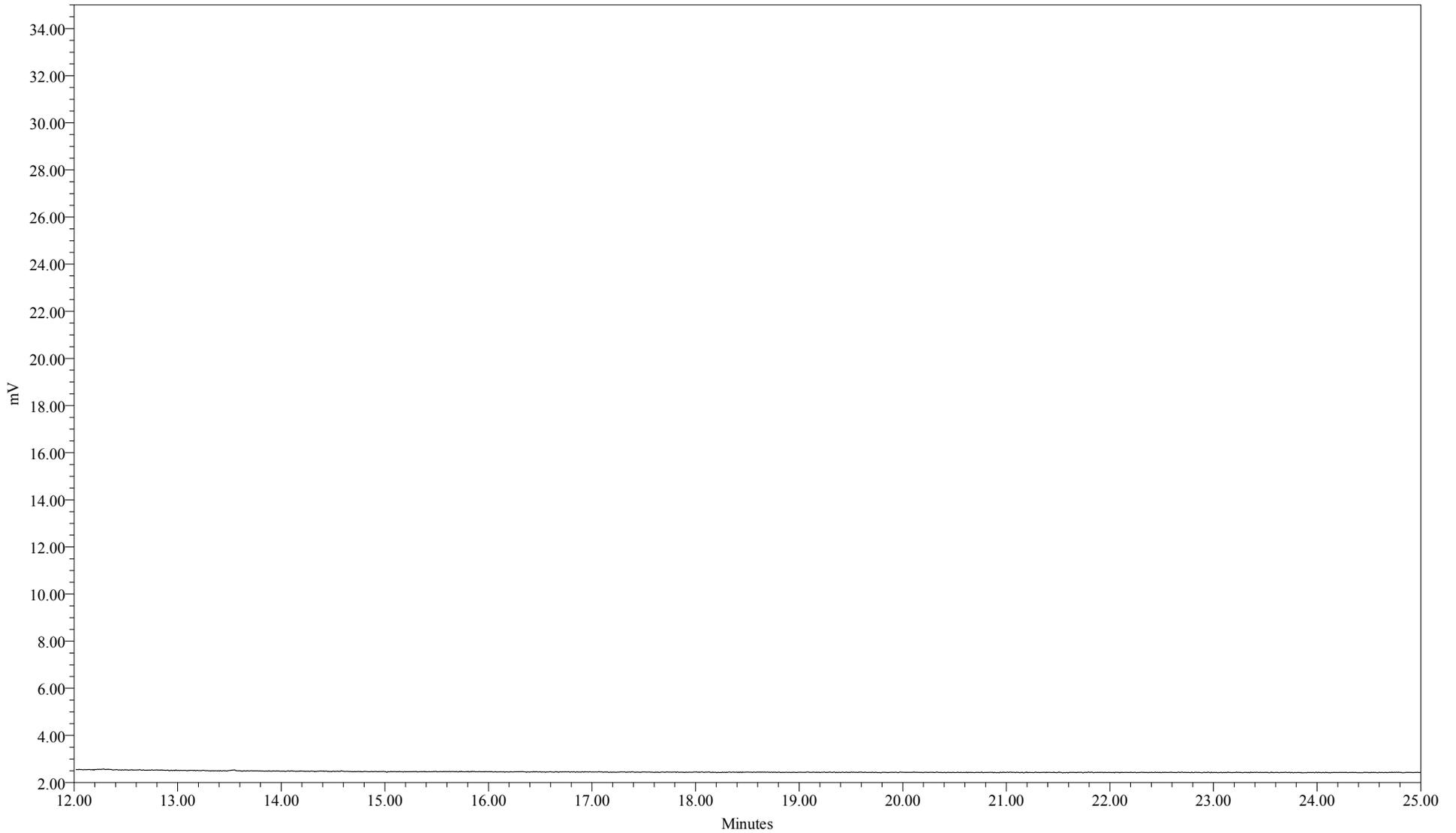
Sample Name: 150611B02  
Sample ID: HEXANE BLANK  
Date Acquired: 6/11/2015 4:44:01 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_012015  
LIMS File ID: GC24-1178-2 [A]



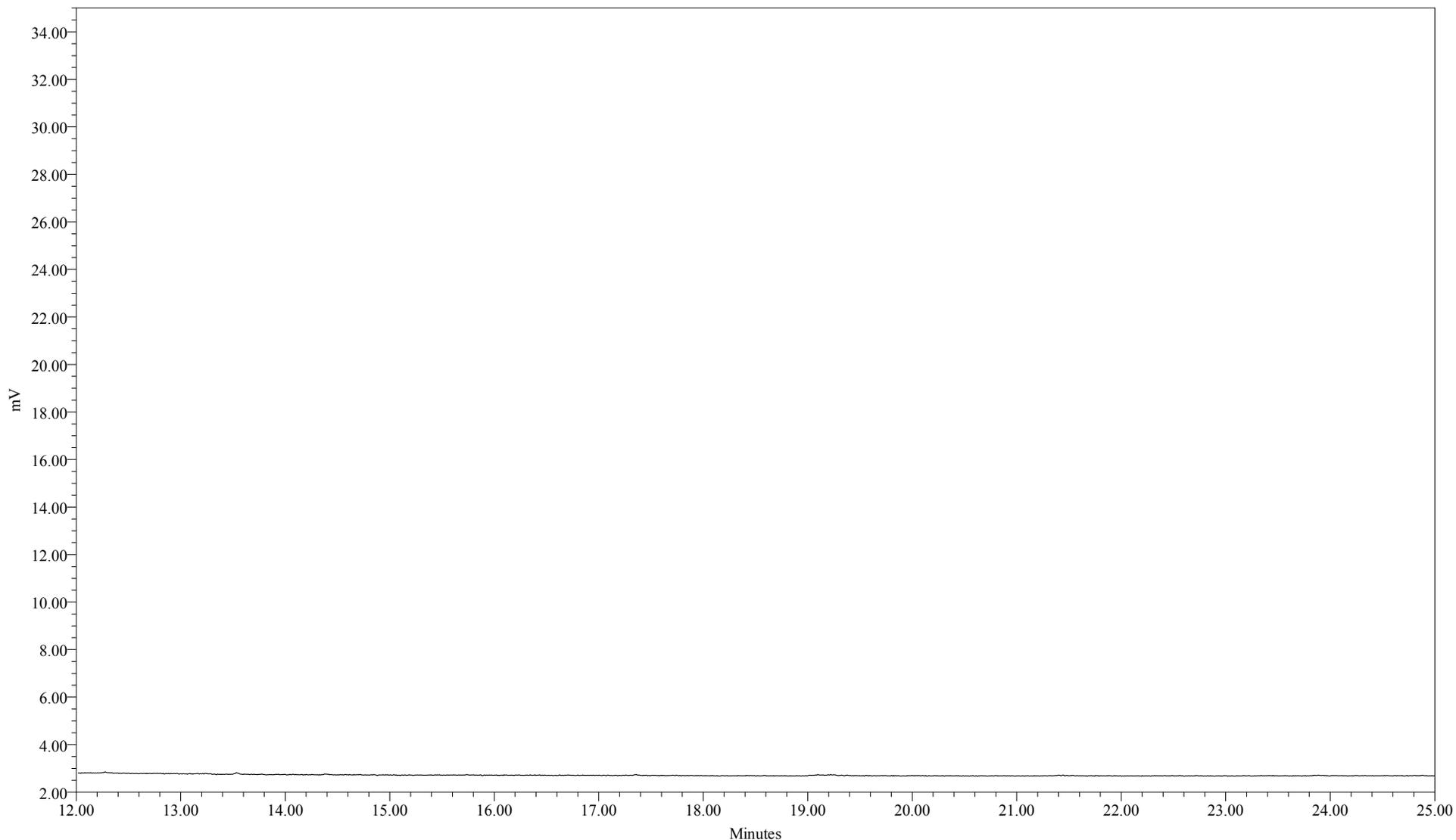
Sample Name: 150612B02  
Sample ID: HEXANE BLANK  
Date Acquired: 6/12/2015 5:58:40 PM EDT

Sample Amount: 1  
Dilution: 1  
Processing Method: CSGB\_LL1X\_012015  
LIMS File ID: GC24-1179-2 [A]



Sample Name: 150610B03  
Sample ID: HEXANE BLANK  
Date Acquired: 6/10/2015 4:35:47 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-457-3 [A]



Sample Name: 150611B03  
Sample ID: HEXANE BLANK  
Date Acquired: 6/11/2015 5:12:46 PM EDT

Sample Amount : 1.0000  
Dilution: 1  
Processing Method: GC30\_410\_1X\_052015  
LIMS File ID: GC30-458-3 [A]

# MDL STUDIES

**Table A1-2  
Reference Limit and Evaluation**

| Matrix       | Category                               | Analyte Name or DB-1 Peak Number                     | CAS number(s)  | Analytical Method | Units   | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|--------------|--|--|--|-------------------|---------|---|--|
| Water Column | PCBs (Aroclors)                        | Aroclor 1016   | 12674-11-2   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1221   | 11104-28-2   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1232   | 11141-16-5   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1242   | 53469-21-9   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1248   | 12672-29-6   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1254   | 11097-69-1   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              |  | Aroclor 1260   | 11096-82-5   | S-NY-O-273-rev.03 | ug/L    | 0.0093  | 0.0250                                   |
|              | Total PCBs (sum of Aroclors)           | 1336-36-3  | S-NY-O-273-rev.03  | ug/L              | 0.0093  | 0.0250  |  |
|              | Total PCB (sum of congeners)           | 1336-36-3  | Modified Green Bay Mass Balance Method (S-NY-O-294-rev.01) | ng/L              | 8.04    | 32.2  |  |
|              | 02                                     | 2051-60-7  | S-NY-O-294-rev.01  | ng/L              | 0.285   | 2.19  |  |
|              | 03                                     | 2051-61-8  | S-NY-O-294-rev.01  | ng/L              | 5.51    | 1000  |  |
|              | 04                                     | 2051-62-9  | S-NY-O-294-rev.01  | ng/L              | 1.15    | 1.28  |  |
|              | 05-4                                   | 13029-08-8   | S-NY-O-294-rev.01  | ng/L              | 0.150   | 0.500   |  |
|              | 05-10                                  | 33146-45-1   | S-NY-O-294-rev.01  | ng/L              | 0.0742  | 0.500   |  |
|              | 06                                     | 33284-50-3<br>34883-39-1                             | S-NY-O-294-rev.01  | ng/L              | 0.0735  | 0.219   |  |
|              | 07                                     | 25569-80-6   | S-NY-O-294-rev.01  | ng/L              | 0.311   | 0.347   |  |
|              | 08                                     | 16605-91-7<br>34883-43-7                             | S-NY-O-294-rev.01  | ng/L              | 0.426   | 2.56  |  |
|              | 09                                     | 34883-41-5   | S-NY-O-294-rev.01  | ng/L              | 0.859   | 25.0  |  |
|              | 10                                     | 38444-73-4   | S-NY-O-294-rev.01  | ng/L              | 0.0359  | 0.102   |  |
|              | 11                                     | 35693-92-6   | S-NY-O-294-rev.01  | ng/L              | 0.104   | 25.0  |  |
|              | 12                                     | 2050-67-1  | S-NY-O-294-rev.01  | ng/L              | 0.396   | 25.0  |  |
|              | 13                                     | 2974-92-7<br>2974-90-5                               | S-NY-O-294-rev.01  | ng/L              | 0.0396  | 0.0975  |  |
|              | 14                                     | 2050-68-2<br>37680-65-2                              | S-NY-O-294-rev.01  | ng/L              | 0.132   | 0.676   |  |
|              | 15                                     | 37680-66-3   | S-NY-O-294-rev.01  | ng/L              | 0.140   | 0.676   |  |
|              | 16                                     | 55702-45-9<br>38444-76-7                             | S-NY-O-294-rev.01  | ng/L              | 0.0320  | 0.0475  |  |
|              | 17                                     | 38444-78-9<br>38444-77-8                             | S-NY-O-294-rev.01  | ng/L              | 0.121   | 0.713   |  |
|              | 19                                     | 55720-44-0<br>37680-68-5<br>15968-05-5               | S-NY-O-294-rev.01  | ng/L              | 0.131   | 25.0  |  |
|              | 20                                     | 15862-07-4   | S-NY-O-294-rev.01  | ng/L              | 0.00734 | 0.0194  |  |
|              | 21                                     | 38444-81-4   | S-NY-O-294-rev.01  | ng/L              | 0.0343  | 0.132   |  |
|              | 22                                     | 55712-37-3   | S-NY-O-294-rev.01  | ng/L              | 0.0219  | 0.0585  |  |
|              | 23                                     | 16606-02-3   | S-NY-O-294-rev.01  | ng/L              | 0.111   | 0.753   |  |
|              | 24                                     | 7012-37-5<br>62796-65-0                              | S-NY-O-294-rev.01  | ng/L              | 0.149   | 0.964   |  |
|              | 25                                     | 38444-84-7<br>55702-46-0<br>38444-86-9<br>41464-41-9 | S-NY-O-294-rev.01  | ng/L              | 0.142   | 0.726   |  |
|              | 26                                     | 38444-85-8<br>68194-04-7                             | S-NY-O-294-rev.01  | ng/L              | 0.112   | 0.530   |  |
|              | 27                                     | 70362-45-7   | S-NY-O-294-rev.01  | ng/L              | 0.0864  | 0.163   |  |
|              | 28                                     | 38444-87-0   | S-NY-O-294-rev.01  | ng/L              | 0.156   | 25.0  |  |
|              | 29                                     | 41464-47-5   | S-NY-O-294-rev.01  | ng/L              | 0.0356  | 0.0731  |  |
| 30           | 38444-88-1                             | S-NY-O-294-rev.01                                    | ng/L   | 0.0623            | 25.0    |   |  |
| 31           | 35693-99-3<br>60233-24-1<br>74338-23-1 | S-NY-O-294-rev.01                                    | ng/L   | 0.127             | 0.872   |   |  |
| 32           | 70362-46-8<br>41464-40-8               | S-NY-O-294-rev.01                                    | ng/L   | 0.125             | 0.420   |   |  |
| 33           | 53555-66-1<br>2437-79-8                | S-NY-O-294-rev.01                                    | ng/L   | 0.0782            | 0.183   |   |  |
| 34           | 70362-47-9<br>32598-12-2               | S-NY-O-294-rev.01                                    | ng/L   | 0.0415            | 0.183   |   |  |
| 35           | 54230-22-7<br>33284-54-7               | S-NY-O-294-rev.01                                    | ng/L   | 0.0582            | 25.0    |   |  |
| 36           | 37680-69-6                             | S-NY-O-294-rev.01                                    | ng/L   | 0.0934            | 25.0    |   |  |
| 37           | 56558-16-8<br>41464-39-5               | S-NY-O-294-rev.01                                    | ng/L   | 0.251             | 0.786   |   |  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                      | Analyte Name or DB-1 Peak Number | CAS number(s)  | Analytical Method | Units | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|-----------------------------|-------------------------------|----------------------------------|--|-------------------|-------|---|--|
| Water Column<br>(Continued) | PCBs (1 liter)<br>(Continued) | 38                               | 38444-90-5<br>36559-22-5<br>74472-33-6   | S-NY-O-294-rev.01 | ng/L  | 0.122   | 0.475                                    |
|                             |                               | 39                               | 52663-59-9<br>52663-58-8<br>41464-46-4<br>41464-42-0   | S-NY-O-294-rev.01 | ng/L  | 0.102   | 0.749                                    |
|                             |                               | 41                               | 73575-52-7<br>73575-54-9   | S-NY-O-294-rev.01 | ng/L  | 0.101   | 25.0                                     |
|                             |                               | 42                               | 38444-93-8   | S-NY-O-294-rev.01 | ng/L  | 0.0358  | 0.172                                    |
|                             |                               | 43                               | 70424-67-8<br>60145-21-3   | S-NY-O-294-rev.01 | ng/L  | 0.142   | 25.0                                     |
|                             |                               | 44                               | 41464-49-7<br>73575-53-8<br>39485-83-1   | S-NY-O-294-rev.01 | ng/L  | 0.0226  | 0.0402                                   |
|                             |                               | 45                               | 74472-34-7   | S-NY-O-294-rev.01 | ng/L  | 0.0333  | 0.0384                                   |
|                             |                               | 46                               | 32690-93-0<br>73575-55-0<br>33284-53-6   | S-NY-O-294-rev.01 | ng/L  | 0.0721  | 0.347                                    |
|                             |                               | 47                               | 32598-11-1   | S-NY-O-294-rev.01 | ng/L  | 0.106   | 0.621                                    |
|                             |                               | 48                               | 32598-10-0<br>70362-48-0<br>60233-25-2<br>33284-52-5<br>73575-56-1<br>38379-99-6<br>68194-06-9<br>55215-17-3 | S-NY-O-294-rev.01 | ng/L  | 0.216   | 1.32                                     |
|                             |                               | 49                               | 74338-24-2<br>68194-05-8<br>56558-18-0   | S-NY-O-294-rev.01 | ng/L  | 0.0239  | 0.0932                                   |
|                             |                               | 50                               | 41464-43-1<br>33025-41-1   | S-NY-O-294-rev.01 | ng/L  | 0.122   | 0.640                                    |
|                             |                               | 51                               | 52663-60-2<br>52663-61-3<br>33979-03-2   | S-NY-O-294-rev.01 | ng/L  | 0.0989  | 0.329                                    |
|                             |                               | 52                               | 73575-57-2   | S-NY-O-294-rev.01 | ng/L  | 0.0132  | 0.0366                                   |
|                             |                               | 53                               | 68194-07-0<br>37680-73-2   | S-NY-O-294-rev.01 | ng/L  | 0.0430  | 0.329                                    |
|                             |                               | 54                               | 41464-48-6<br>38380-01-7<br>68194-10-5   | S-NY-O-294-rev.01 | ng/L  | 0.0172  | 0.135                                    |
|                             |                               | 55                               | 56558-17-9<br>68194-08-1   | S-NY-O-294-rev.01 | ng/L  | 0.00657   | 0.0102                                   |
|                             |                               | 56                               | 70362-49-1<br>60145-20-2<br>74472-36-9<br>70362-41-3   | S-NY-O-294-rev.01 | ng/L  | 0.0251  | 0.0548                                   |
|                             |                               | 57                               | 41464-51-1<br>68194-09-2<br>55312-69-1   | S-NY-O-294-rev.01 | ng/L  | 0.0653  | 0.102                                    |
|                             |                               | 58                               | 70362-50-4<br>38380-02-8<br>68194-11-06<br>74472-39-2<br>39635-32-0<br>74472-38-1<br>74472-40-5              | S-NY-O-294-rev.01 | ng/L  | 0.0479  | 0.212                                    |
|                             |                               | 59                               | 18259-05-7<br>65510-45-4   | S-NY-O-294-rev.01 | ng/L  | 0.0224  | 0.128                                    |
|                             |                               | 60                               | 68194-12-7<br>38411-22-2   | S-NY-O-294-rev.01 | ng/L  | 0.0379  | 0.137                                    |
|                             |                               | 61                               | 32598-13-3<br>38380-03-9<br>74472-41-6   | S-NY-O-294-rev.01 | ng/L  | 0.0690  | 0.389                                    |
|                             |                               | 62                               | 60145-22-4   | S-NY-O-294-rev.01 | ng/L  | 0.116   | 25.0                                     |
|                             |                               | 63                               | 52663-62-4   | S-NY-O-294-rev.01 | ng/L  | 0.0268  | 0.0804                                   |
|                             |                               | 64                               | 52663-63-5   | S-NY-O-294-rev.01 | ng/L  | 0.0497  | 0.311                                    |
|                             |                               | 65                               | 70424-70-3<br>52744-13-5   | S-NY-O-294-rev.01 | ng/L  | 0.0150  | 0.0530                                   |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                  | Analyte Name or DB-1 Peak Number | CAS number(s)            | Analytical Method | Units   | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|-----------------------------|---------------------------|----------------------------------|--------------------------|-------------------|---------|---|--|
| Water Column<br>(Continued) | PCBs (1 L)<br>(Continued) | 66                               | 68194-14-9               | S-NY-O-294-rev.01 | ng/L    | 0.0349  | 0.110                                    |
|                             |                           | 67                               | 70424-68-9               | S-NY-O-294-rev.01 | ng/L    | 0.0198  | 0.0475                                   |
|                             |                           |                                  | 74472-35-8<br>68194-13-8 |                   |         |   |  |
|                             |                           | 68                               | 65510-44-3               | S-NY-O-294-rev.01 | ng/L    | 0.158   | 25.0                                     |
|                             |                           | 69                               | 70424-69-0               | S-NY-O-294-rev.01 | ng/L    | 0.154   | 0.731                                    |
|                             |                           |                                  | 31508-00-6               |                   |         |   |  |
|                             |                           |                                  | 56030-56-9<br>38380-04-0 |                   |         |   |  |
|                             |                           | 70                               | 59291-64-4               | S-NY-O-294-rev.01 | ng/L    | 0.102   | 25.0                                     |
|                             |                           | 71                               | 74472-37-0               | S-NY-O-294-rev.01 | ng/L    | 0.0342  | 0.0369                                   |
|                             |                           |                                  | 52704-70-8<br>68194-15-0 |                   |         |   |  |
|                             |                           | 72                               | 76842-07-4               | S-NY-O-294-rev.01 | ng/L    | 0.00525   | 0.0106                                   |
|                             |                           |                                  | 61798-70-7               |                   |         |   |  |
|                             |                           |                                  | 35694-04-3<br>41411-61-4 |                   |         |   |  |
|                             |                           | 73                               | 51908-16-8               | S-NY-O-294-rev.01 | ng/L    | 0.0258  | 0.0713                                   |
|                             |                           |                                  | 74472-46-1               |                   |         |   |  |
|                             |                           |                                  | 74487-85-7               |                   |         |   |  |
|                             |                           | 74                               | 32598-14-4               | S-NY-O-294-rev.01 | ng/L    | 0.0335  | 0.248                                    |
|                             |                           |                                  | 38380-05-1<br>74472-43-8 |                   |         |   |  |
|                             |                           | 75                               | 35065-27-1               | S-NY-O-294-rev.01 | ng/L    | 0.0829  | 0.538                                    |
|                             |                           | 76                               | 39635-33-1               | S-NY-O-294-rev.01 | ng/L    | 0.0915  | 25.0                                     |
|                             |                           |                                  | 59291-65-5<br>74472-48-3 |                   |         |   |  |
|                             |                           | 77                               | 52712-04-6               | S-NY-O-294-rev.01 | ng/L    | 0.0445  | 0.311                                    |
|                             |                           | 78                               | 52663-64-6               | S-NY-O-294-rev.01 | ng/L    | 0.0542  | 0.267                                    |
|                             |                           | 79                               | 35694-06-5               | S-NY-O-294-rev.01 | ng/L    | 0.0298  | 0.0298                                   |
|                             |                           | 80                               | 52663-66-8               | S-NY-O-294-rev.01 | ng/L    | 0.00954   | 0.0475                                   |
|                             |                           |                                  | 52663-65-7               |                   |         |   |  |
|                             |                           | 82                               | 35065-28-2               | S-NY-O-294-rev.01 | ng/L    | 0.0665  | 0.493                                    |
|                             |                           |                                  | 74472-44-9               |                   |         |   |  |
|                             |                           |                                  | 74472-45-0               |                   |         |   |  |
|                             |                           | 83                               | 74472-42-7               | S-NY-O-294-rev.01 | ng/L    | 0.0310  | 0.0457                                   |
| 41411-62-5<br>74472-49-4    |                           |                                  |                          |                   |         |   |  |
| 84                          | 57465-28-8                | S-NY-O-294-rev.01                | ng/L                     | 0.00213           | 0.00473 |   |  |
|                             | 55215-18-4                |                                  |                          |                   |         |   |  |
| 85                          | 41411-63-6                | S-NY-O-294-rev.01                | ng/L                     | 0.0563            | 0.201   |   |  |
|                             | 52663-67-9                |                                  |                          |                   |         |   |  |
| 87                          | 40186-70-7                | S-NY-O-294-rev.01                | ng/L                     | 0.0298            | 0.0731  |   |  |
|                             | 39635-35-3                |                                  |                          |                   |         |   |  |
| 88                          | 60145-23-5                | S-NY-O-294-rev.01                | ng/L                     | 0.0923            | 0.658   |   |  |
|                             | 52663-68-0                |                                  |                          |                   |         |   |  |
| 89                          | 38380-07-3                | S-NY-O-294-rev.01                | ng/L                     | 0.0213            | 0.0366  |   |  |
|                             | 39635-34-2                |                                  |                          |                   |         |   |  |
| 90                          | 52663-69-1                | S-NY-O-294-rev.01                | ng/L                     | 0.0576            | 0.311   |   |  |
| 91                          | 52663-72-6                | S-NY-O-294-rev.01                | ng/L                     | 0.0299            | 0.0299  |   |  |
| 92                          | 52712-05-7                | S-NY-O-294-rev.01                | ng/L                     | 0.0169            | 0.0859  |   |  |
| 93                          | 38411-25-5                | S-NY-O-294-rev.01                | ng/L                     | 0.0993            | 0.585   |   |  |
|                             | 74472-47-2                |                                  |                          |                   |         |   |  |
| 94                          | 52663-70-4                | S-NY-O-294-rev.01                | ng/L                     | 0.0637            | 0.311   |   |  |
|                             | 38380-08-4<br>52663-71-5  |                                  |                          |                   |         |   |  |
| 95                          | 69782-90-7                | S-NY-O-294-rev.01                | ng/L                     | 0.00708           | 0.0121  |   |  |
|                             | 2136-99-4                 |                                  |                          |                   |         |   |  |
| 98                          | 68194-16-1                | S-NY-O-294-rev.01                | ng/L                     | 0.00746           | 0.0139  |   |  |
| 99                          | 40186-71-8                | S-NY-O-294-rev.01                | ng/L                     | 0.0412            | 0.0713  |   |  |
| 100                         | 52663-74-8                | S-NY-O-294-rev.01                | ng/L                     | 0.0559            | 0.102   |   |  |
|                             | 74472-52-9                |                                  |                          |                   |         |   |  |
| 101                         | 74472-51-8                | S-NY-O-294-rev.01                | ng/L                     | 0.0147            | 0.0402  |   |  |
|                             | 33091-17-7                |                                  |                          |                   |         |   |  |
| 102                         | 35065-29-3                | S-NY-O-294-rev.01                | ng/L                     | 0.156             | 1.11    |   |  |
| 103                         | 69782-91-8                | S-NY-O-294-rev.01                | ng/L                     | 0.0395            | 0.0768  |   |  |
| 104                         | 74472-50-7                | S-NY-O-294-rev.01                | ng/L                     | 0.0224            | 0.0438  |   |  |
| 105                         | 52663-73-7                | S-NY-O-294-rev.01                | ng/L                     | 0.0159            | 0.0786  |   |  |
|                             | 32774-16-6                |                                  |                          |                   |         |   |  |
| 106                         | 35065-30-6                | S-NY-O-294-rev.01                | ng/L                     | 0.182             | 0.234   |   |  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                  | Analyte Name or DB-1 Peak Number | CAS number(s)  | Analytical Method                      | Units  | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |         |
|-----------------------------|---------------------------|----------------------------------|--|--|--|---|--|---------|
| Water Column<br>(Continued) | PCBs (1 L)<br>(Continued) | 107                              | 41411-64-7   | S-NY-O-294-rev.01                      | ng/L   | 0.0564  | 0.0768                                   |         |
|                             |                           | 108                              | 68194-17-2   | S-NY-O-294-rev.01                      | ng/L   | 0.0234  | 0.0438                                   |         |
|                             |                           | 109                              | 52663-75-9   | S-NY-O-294-rev.01                      | ng/L   | 0.0961  | 0.768                                    |         |
|                             |                           | 110                              | 42740-50-1<br>52663-76-0                             | S-NY-O-294-rev.01                      | ng/L   | 0.176   | 0.786                                    |         |
|                             |                           | 111                              | 39635-31-9   | S-NY-O-294-rev.01                      | ng/L   | 0.0207  | 0.0207                                   |         |
|                             |                           | 112                              | 52663-78-2   | S-NY-O-294-rev.01                      | ng/L   | 0.0217  | 0.101                                    |         |
|                             |                           | 113                              | 52663-77-1   | S-NY-O-294-rev.01                      | ng/L   | 0.0429  | 0.0903                                   |         |
|                             |                           | 114 (surrogate)                  | 52663-79-3   | S-NY-O-294-rev.01                      | ng/L   | 0.0138  | 0.0340                                   |         |
|                             |                           | 115                              | 35694-08-7   | S-NY-O-294-rev.01                      | ng/L   | 0.0710  | 0.329                                    |         |
|                             |                           | 116                              | 74472-53-0   | S-NY-O-294-rev.01                      | ng/L   | 0.0762  | 0.0762                                   |         |
|                             | 117                       | 40186-72-9                       | S-NY-O-294-rev.01                                    | ng/L                                   | 0.0775   | 0.124   |  |         |
|                             | 118                       | 2051-24-3                        | S-NY-O-294-rev.01                                    | ng/L                                   | 0.00690  | 0.00690   |  |         |
|                             |                           |                                  | Total PCB<br>(sum of congeners)                      | 1336-36-3                              | Modified Green Bay Mass<br>Balance Method<br>(S-NY-O-294-rev.01) | ng/L  | 1.22                                     | 4.11    |
|                             |                           |                                  | 02   | 2051-60-7                              | S-NY-O-294-rev.01  | ng/L  | 0.0437                                   | 0.274   |
|                             |                           |                                  | 03   | 2051-61-8                              | S-NY-O-294-rev.01  | ng/L  | 0.885                                    | 125     |
|                             |                           |                                  | 04   | 2051-62-9                              | S-NY-O-294-rev.01  | ng/L  | 0.164                                    | 0.164   |
|                             |                           |                                  | 05-4   | 13029-08-8                             | S-NY-O-294-rev.01  | ng/L  | 0.0155                                   | 0.0625  |
|                             |                           |                                  | 05-10  | 33146-45-1                             | S-NY-O-294-rev.01  | ng/L  | 0.0119                                   | 0.0625  |
|                             |                           |                                  | 06   | 33284-50-3<br>34883-39-1               | S-NY-O-294-rev.01  | ng/L  | 0.0166                                   | 0.0274  |
|                             |                           |                                  | 07   | 25569-80-6                             | S-NY-O-294-rev.01  | ng/L  | 0.0335                                   | 0.0434  |
|                             |                           |                                  | 08   | 16605-91-7<br>34883-43-7               | S-NY-O-294-rev.01  | ng/L  | 0.0451                                   | 0.320   |
|                             |                           |                                  | 09   | 34883-41-5                             | S-NY-O-294-rev.01  | ng/L  | 0.0604                                   | 3.13    |
|                             |                           |                                  | 10   | 38444-73-4                             | S-NY-O-294-rev.01  | ng/L  | 0.0109                                   | 0.0128  |
|                             |                           |                                  | 11   | 35693-92-6                             | S-NY-O-294-rev.01  | ng/L  | 0.0173                                   | 3.13    |
|                             |                           |                                  | 12   | 2050-67-1                              | S-NY-O-294-rev.01  | ng/L  | 0.0571                                   | 3.13    |
|                             |                           |                                  | 13   | 2974-92-7<br>2974-90-5                 | S-NY-O-294-rev.01  | ng/L  | 0.00804                                  | 0.0122  |
|                             |                           |                                  | 14   | 2050-68-2<br>37680-65-2                | S-NY-O-294-rev.01  | ng/L  | 0.0138                                   | 0.0845  |
|                             |                           |                                  | 15   | 37680-66-3                             | S-NY-O-294-rev.01  | ng/L  | 0.0171                                   | 0.0845  |
|                             |                           |                                  | 16   | 55702-45-9<br>38444-76-7               | S-NY-O-294-rev.01  | ng/L  | 0.00417                                  | 0.00594 |
|                             |                           |                                  | 17   | 38444-78-9<br>38444-77-8               | S-NY-O-294-rev.01  | ng/L  | 0.0179                                   | 0.0891  |
|                             |                           |                                  | 19   | 55720-44-0<br>37680-68-5<br>15968-05-5 | S-NY-O-294-rev.01  | ng/L  | 0.0246                                   | 3.13    |
|                             |                           |                                  | 20   | 15862-07-4                             | S-NY-O-294-rev.01  | ng/L  | 0.00281                                  | 0.00281 |
|                             |                           |                                  | 21   | 38444-81-4                             | S-NY-O-294-rev.01  | ng/L  | 0.00318                                  | 0.0164  |
|                             |                           |                                  | 22   | 55712-37-3                             | S-NY-O-294-rev.01  | ng/L  | 0.00339                                  | 0.00731 |
|                             |                           |                                  | 23   | 16606-02-3                             | S-NY-O-294-rev.01  | ng/L  | 0.0181                                   | 0.0942  |
|                             |                           |                                  | 24   | 7012-37-5<br>62796-65-0                | S-NY-O-294-rev.01  | ng/L  | 0.0166                                   | 0.121   |
|                             |                           | 25                               | 38444-84-7<br>55702-46-0<br>38444-86-9<br>41464-41-9 | S-NY-O-294-rev.01                      | ng/L   | 0.0137  | 0.0907                                   |         |
|                             |                           | 26                               | 38444-85-8<br>68194-04-7                             | S-NY-O-294-rev.01                      | ng/L   | 0.0134  | 0.0662                                   |         |
|                             |                           | 27                               | 70362-45-7   | S-NY-O-294-rev.01                      | ng/L   | 0.00507   | 0.0203                                   |         |
|                             |                           | 28                               | 38444-87-0   | S-NY-O-294-rev.01                      | ng/L   | 0.0272  | 3.13                                     |         |
|                             |                           | 29                               | 41464-47-5   | S-NY-O-294-rev.01                      | ng/L   | 0.00639   | 0.00914                                  |         |
|                             |                           | 30                               | 38444-88-1   | S-NY-O-294-rev.01                      | ng/L   | 0.0248  | 3.13                                     |         |
|                             |                           | 31                               | 35693-99-3<br>60233-24-1<br>74338-23-1               | S-NY-O-294-rev.01                      | ng/L   | 0.0252  | 0.109                                    |         |
|                             |                           | 32                               | 70362-46-8<br>41464-40-8                             | S-NY-O-294-rev.01                      | ng/L   | 0.0125  | 0.0525                                   |         |
|                             |                           | 33                               | 53555-66-1<br>2437-79-8                              | S-NY-O-294-rev.01                      | ng/L   | 0.0119  | 0.0228                                   |         |
|                             |                           | 34                               | 70362-47-9<br>32598-12-2                             | S-NY-O-294-rev.01                      | ng/L   | 0.00506   | 0.0228                                   |         |
|                             |                           | 35                               | 54230-22-7<br>33284-54-7                             | S-NY-O-294-rev.01                      | ng/L   | 0.0204  | 3.13                                     |         |
|                             |                           | 36                               | 37680-69-6   | S-NY-O-294-rev.01                      | ng/L   | 0.0227  | 3.13                                     |         |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                      | Analyte Name or DB-1 Peak Number | CAS number(s)  | Analytical Method | Units | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|-----------------------------|-------------------------------|----------------------------------|--|-------------------|-------|---|--|
| Water Column<br>(Continued) | PCBs (8 liter)<br>(Continued) | 37                               | 56558-16-8<br>41464-39-5   | S-NY-O-294-rev.01 | ng/L  | 0.0781  | 0.0982                                   |
|                             |                               | 38                               | 38444-90-5<br>36559-22-5<br>74472-33-6   | S-NY-O-294-rev.01 | ng/L  | 0.0114  | 0.0594                                   |
|                             |                               | 39                               | 52663-59-9<br>52663-58-8<br>41464-46-4<br>41464-42-0   | S-NY-O-294-rev.01 | ng/L  | 0.0134  | 0.0937                                   |
|                             |                               | 41                               | 73575-52-7<br>73575-54-9   | S-NY-O-294-rev.01 | ng/L  | 0.0302  | 3.13                                     |
|                             |                               | 42                               | 38444-93-8   | S-NY-O-294-rev.01 | ng/L  | 0.0150  | 0.0215                                   |
|                             |                               | 43                               | 70424-67-8<br>60145-21-3   | S-NY-O-294-rev.01 | ng/L  | 0.0301  | 3.13                                     |
|                             |                               | 44                               | 41464-49-7<br>73575-53-8<br>39485-83-1   | S-NY-O-294-rev.01 | ng/L  | 0.00171   | 0.00503                                  |
|                             |                               | 45                               | 74472-34-7   | S-NY-O-294-rev.01 | ng/L  | 0.0101  | 0.0101                                   |
|                             |                               | 46                               | 32690-93-0<br>73575-55-0<br>33284-53-6   | S-NY-O-294-rev.01 | ng/L  | 0.00870   | 0.0434                                   |
|                             |                               | 47                               | 32598-11-1   | S-NY-O-294-rev.01 | ng/L  | 0.0165  | 0.0777                                   |
|                             |                               | 48                               | 32598-10-0<br>70362-48-0<br>60233-25-2<br>33284-52-5<br>73575-56-1<br>38379-99-6<br>68194-06-9<br>55215-17-3 | S-NY-O-294-rev.01 | ng/L  | 0.0247  | 0.164                                    |
|                             |                               | 49                               | 74338-24-2<br>68194-05-8<br>56558-18-0   | S-NY-O-294-rev.01 | ng/L  | 0.00942   | 0.0117                                   |
|                             |                               | 50                               | 41464-43-1<br>33025-41-1   | S-NY-O-294-rev.01 | ng/L  | 0.0340  | 0.0799                                   |
|                             |                               | 51                               | 52663-60-2<br>52663-61-3<br>33979-03-2   | S-NY-O-294-rev.01 | ng/L  | 0.00889   | 0.0411                                   |
|                             |                               | 52                               | 73575-57-2   | S-NY-O-294-rev.01 | ng/L  | 0.00679   | 0.00679                                  |
|                             |                               | 53                               | 68194-07-0<br>37680-73-2   | S-NY-O-294-rev.01 | ng/L  | 0.00741   | 0.0411                                   |
|                             |                               | 54                               | 41464-48-6<br>38380-01-7<br>68194-10-5   | S-NY-O-294-rev.01 | ng/L  | 0.00273   | 0.0169                                   |
|                             |                               | 55                               | 56558-17-9<br>68194-08-1   | S-NY-O-294-rev.01 | ng/L  | 0.000723  | 0.00128                                  |
|                             |                               | 56                               | 70362-49-1<br>60145-20-2<br>74472-36-9<br>70362-41-3   | S-NY-O-294-rev.01 | ng/L  | 0.00391   | 0.00685                                  |
|                             |                               | 57                               | 41464-51-1<br>68194-09-2<br>55312-69-1   | S-NY-O-294-rev.01 | ng/L  | 0.02665   | 0.02665                                  |
|                             |                               | 58                               | 70362-50-4<br>38380-02-8<br>68194-11-06<br>74472-39-2<br>39635-32-0<br>74472-38-1<br>74472-40-5              | S-NY-O-294-rev.01 | ng/L  | 0.00650   | 0.0265                                   |
|                             |                               | 59                               | 18259-05-7<br>65510-45-4   | S-NY-O-294-rev.01 | ng/L  | 0.00289   | 0.0160                                   |
|                             |                               | 60                               | 68194-12-7<br>38411-22-2   | S-NY-O-294-rev.01 | ng/L  | 0.00378   | 0.0171                                   |
|                             |                               | 61                               | 32598-13-3<br>38380-03-9<br>74472-41-6   | S-NY-O-294-rev.01 | ng/L  | 0.00720   | 0.0487                                   |
|                             |                               | 62                               | 60145-22-4   | S-NY-O-294-rev.01 | ng/L  | 0.0268  | 3.13                                     |
|                             |                               | 63                               | 52663-62-4   | S-NY-O-294-rev.01 | ng/L  | 0.00669   | 0.0100                                   |
|                             |                               | 64                               | 52663-63-5   | S-NY-O-294-rev.01 | ng/L  | 0.00710   | 0.0388                                   |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                      | Analyte Name or DB-1 Peak Number | CAS number(s)  | Analytical Method | Units   | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|-----------------------------|-------------------------------|----------------------------------|--|-------------------|---------|---|--|
| Water Column<br>(Continued) | PCBs (8 liter)<br>(Continued) | 65                               | 70424-70-3<br>52744-13-5                             | S-NY-O-294-rev.01 | ng/L    | 0.00266   | 0.00663                                  |
|                             |                               | 66                               | 68194-14-9   | S-NY-O-294-rev.01 | ng/L    | 0.0219  | 0.0219                                   |
|                             |                               | 67                               | 70424-68-9<br>74472-35-8<br>68194-13-8               | S-NY-O-294-rev.01 | ng/L    | 0.00328   | 0.00594                                  |
|                             |                               | 68                               | 65510-44-3   | S-NY-O-294-rev.01 | ng/L    | 0.0391  | 3.13                                     |
|                             |                               | 69                               | 70424-69-0<br>31508-00-6<br>56030-56-9<br>38380-04-0 | S-NY-O-294-rev.01 | ng/L    | 0.0115  | 0.0914                                   |
|                             |                               | 70                               | 59291-64-4   | S-NY-O-294-rev.01 | ng/L    | 0.0242  | 3.13                                     |
|                             |                               | 71                               | 74472-37-0<br>52704-70-8<br>68194-15-0               | S-NY-O-294-rev.01 | ng/L    | 0.00281   | 0.00461                                  |
|                             |                               | 72                               | 76842-07-4<br>61798-70-7<br>35694-04-3<br>41411-61-4 | S-NY-O-294-rev.01 | ng/L    | 0.00262   | 0.00262                                  |
|                             |                               | 73                               | 51908-16-8<br>74472-46-1<br>74487-85-7               | S-NY-O-294-rev.01 | ng/L    | 0.00678   | 0.00891                                  |
|                             |                               | 74                               | 32598-14-4<br>38380-05-1<br>74472-43-8               | S-NY-O-294-rev.01 | ng/L    | 0.00664   | 0.0309                                   |
|                             |                               | 75                               | 35065-27-1   | S-NY-O-294-rev.01 | ng/L    | 0.0181  | 0.0673                                   |
|                             |                               | 76                               | 39635-33-1<br>59291-65-5<br>74472-48-3               | S-NY-O-294-rev.01 | ng/L    | 0.0195  | 3.13                                     |
|                             |                               | 77                               | 52712-04-6   | S-NY-O-294-rev.01 | ng/L    | 0.00505   | 0.0388                                   |
|                             |                               | 78                               | 52663-64-6   | S-NY-O-294-rev.01 | ng/L    | 0.00507   | 0.0334                                   |
|                             |                               | 79                               | 35694-06-5   | S-NY-O-294-rev.01 | ng/L    | 0.00601   | 0.00601                                  |
|                             |                               | 80                               | 52663-66-8<br>52663-65-7                             | S-NY-O-294-rev.01 | ng/L    | 0.00107   | 0.00594                                  |
|                             |                               | 82                               | 35065-28-2<br>74472-44-9<br>74472-45-0               | S-NY-O-294-rev.01 | ng/L    | 0.0120  | 0.0617                                   |
|                             |                               | 83                               | 74472-42-7<br>41411-62-5<br>74472-49-4               | S-NY-O-294-rev.01 | ng/L    | 0.00461   | 0.00571                                  |
|                             |                               | 84                               | 57465-28-8<br>55215-18-4                             | S-NY-O-294-rev.01 | ng/L    | 0.000190  | 0.000591                                 |
|                             |                               | 85                               | 41411-63-6<br>52663-67-9                             | S-NY-O-294-rev.01 | ng/L    | 0.00621   | 0.0251                                   |
|                             |                               | 87                               | 40186-70-7<br>39635-35-3                             | S-NY-O-294-rev.01 | ng/L    | 0.00349   | 0.00914                                  |
|                             |                               | 88                               | 60145-23-5<br>52663-68-0                             | S-NY-O-294-rev.01 | ng/L    | 0.0115  | 0.0822                                   |
|                             |                               | 89                               | 38380-07-3<br>39635-34-2                             | S-NY-O-294-rev.01 | ng/L    | 0.00126   | 0.00457                                  |
|                             |                               | 90                               | 52663-69-1   | S-NY-O-294-rev.01 | ng/L    | 0.00802   | 0.0388                                   |
|                             |                               | 91                               | 52663-72-6   | S-NY-O-294-rev.01 | ng/L    | 0.00537   | 0.00537                                  |
|                             |                               | 92                               | 52712-05-7   | S-NY-O-294-rev.01 | ng/L    | 0.00170   | 0.0107                                   |
|                             |                               | 93                               | 38411-25-5<br>74472-47-2                             | S-NY-O-294-rev.01 | ng/L    | 0.00993   | 0.0731                                   |
|                             |                               | 94                               | 52663-70-4   | S-NY-O-294-rev.01 | ng/L    | 0.00618   | 0.0388                                   |
|                             |                               | 95                               | 38380-08-4<br>52663-71-5                             | S-NY-O-294-rev.01 | ng/L    | 0.00663   | 0.0180                                   |
|                             |                               | 96                               | 69782-90-7<br>2136-99-4                              | S-NY-O-294-rev.01 | ng/L    | 0.000780  | 0.00151                                  |
|                             |                               | 98                               | 68194-16-1   | S-NY-O-294-rev.01 | ng/L    | 0.00250   | 0.00250                                  |
|                             |                               | 99                               | 40186-71-8   | S-NY-O-294-rev.01 | ng/L    | 0.00120   | 0.00891                                  |
| 100                         | 52663-74-8<br>74472-52-9      | S-NY-O-294-rev.01                | ng/L   | 0.0571            | 0.0571  |   |  |
| 101                         | 74472-51-8<br>33091-17-7      | S-NY-O-294-rev.01                | ng/L   | 0.00594           | 0.00594 |   |  |
| 102                         | 35065-29-3                    | S-NY-O-294-rev.01                | ng/L   | 0.0272            | 0.139   |   |  |
| 103                         | 69782-91-8                    | S-NY-O-294-rev.01                | ng/L   | 0.00232           | 0.00959 |   |  |
| 104                         | 74472-50-7                    | S-NY-O-294-rev.01                | ng/L   | 0.00155           | 0.00548 |   |  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                      | Category                        | Analyte Name or DB-1 Peak Number | CAS number(s)            | Analytical Method                                    | Units    | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|-----------------------------|---------------------------------|----------------------------------|--------------------------|--|----------|---|--|
| Water Column<br>(Continued) | PCBs (8 liter)<br>(Continued)   | 105                              | 52663-73-7<br>32774-16-6 | S-NY-O-294-rev.01                                    | ng/L     | 0.00240   | 0.00982                                  |
|                             |                                 | 106                              | 35065-30-6               | S-NY-O-294-rev.01                                    | ng/L     | 0.0212  | 0.0292                                   |
|                             |                                 | 107                              | 41411-64-7               | S-NY-O-294-rev.01                                    | ng/L     | 0.00801   | 0.00959                                  |
|                             |                                 | 108                              | 68194-17-2               | S-NY-O-294-rev.01                                    | ng/L     | 0.00168   | 0.00548                                  |
|                             |                                 | 109                              | 52663-75-9               | S-NY-O-294-rev.01                                    | ng/L     | 0.0166  | 0.0959                                   |
|                             |                                 | 110                              | 42740-50-1<br>52663-76-0 | S-NY-O-294-rev.01                                    | ng/L     | 0.0185  | 0.0982                                   |
|                             |                                 | 111                              | 39635-31-9               | S-NY-O-294-rev.01                                    | ng/L     | 0.00213   | 0.00213                                  |
|                             |                                 | 112                              | 52663-78-2               | S-NY-O-294-rev.01                                    | ng/L     | 0.00277   | 0.0126                                   |
|                             |                                 | 113                              | 52663-77-1               | S-NY-O-294-rev.01                                    | ng/L     | 0.00374   | 0.0113                                   |
|                             |                                 | 114 (surrogate)                  | 52663-79-3               | S-NY-O-294-rev.01                                    | ng/L     | 0.00528   | 0.00528                                  |
|                             |                                 | 115                              | 35694-08-7               | S-NY-O-294-rev.01                                    | ng/L     | 0.00500   | 0.0411                                   |
|                             |                                 | 116                              | 74472-53-0               | S-NY-O-294-rev.01                                    | ng/L     | 0.00668   | 0.00668                                  |
|                             |                                 | 117                              | 40186-72-9               | S-NY-O-294-rev.01                                    | ng/L     | 0.00189   | 0.0155                                   |
|                             | 118                             | 2051-24-3                        | S-NY-O-294-rev.01        | ng/L   | 0.000763 | 0.000763  |  |
|                             | Metals                          | Ag (Silver)                      | 7440-22-4                | EPA 200.8  | ug/L     | 0.013   | 1.0                                      |
|                             |                                 | Al (Aluminum)                    | 7429-90-5                | EPA 200.8  | ug/L     | 2.9   | 30.0                                     |
|                             |                                 | As (Arsenic)                     | 7440-38-2                | EPA 200.8  | ug/L     | 0.065   | 1.0                                      |
|                             |                                 | Ba (Barium)                      | 7440-39-3                | EPA 200.8  | ug/L     | 0.53  | 10.0                                     |
|                             |                                 | Be (Beryllium)                   | 7440-41-7                | EPA 200.8  | ug/L     | 0.073   | 1.0                                      |
|                             |                                 | Ca (Calcium)                     | 7440-70-2                | EPA 200.8  | ug/L     | 18  | 500                                      |
|                             |                                 | Cd (Cadmium)                     | 7440-43-9                | EPA 200.8  | ug/L     | 0.039   | 0.50                                     |
|                             |                                 | Co (Cobalt)                      | 7440-48-4                | EPA 200.8  | ug/L     | 0.045   | 0.50                                     |
|                             |                                 | Cr (Chromium)                    | 7440-47-3                | EPA 200.8  | ug/L     | 0.078   | 2.0                                      |
|                             |                                 | Cu (Copper)                      | 7440-50-8                | EPA 200.8  | ug/L     | 0.10  | 2.0                                      |
|                             |                                 | Fe (Iron)                        | 7439-89-6                | EPA 200.8  | ug/L     | 26  | 50.0                                     |
|                             |                                 | Hg (Mercury)                     | 7439-97-6                | EPA 245.1  | ug/L     | 0.038   | 0.20                                     |
|                             |                                 | K (Potassium)                    | 7440-09-7                | EPA 200.8  | ug/L     | 6.4   | 100                                      |
|                             |                                 | Mg (Magnesium)                   | 7439-95-4                | EPA 200.8  | ug/L     | 5.2   | 100                                      |
|                             |                                 | Mn (Manganese)                   | 7439-96-5                | EPA 200.8  | ug/L     | 0.33  | 0.50                                     |
|                             |                                 | Na (Sodium)                      | 7440-23-5                | EPA 200.8  | ug/L     | 22  | 100                                      |
|                             |                                 | Ni (Nickel)                      | 7440-02-0                | EPA 200.8  | ug/L     | 0.074   | 1.0                                      |
|                             |                                 | Pb (Lead)                        | 7439-92-1                | EPA 200.8  | ug/L     | 0.067   | 1.0                                      |
|                             |                                 | Sb (Antimony)                    | 7440-36-0                | EPA 200.8  | ug/L     | 0.059   | 2.0                                      |
| Se (Selenium)               | 7782-49-2                       | EPA 200.8                        | ug/L                     | 0.39   | 5.0      |   |  |
| Tl (Thallium)               | 7440-28-0                       | EPA 200.8                        | ug/L                     | 0.019  | 1.0      |   |  |
| V (Vanadium)                | 7440-62-2                       | EPA 200.8                        | ug/L                     | 0.094  | 1.0      |   |  |
| Zn (Zinc)                   | 7440-66-6                       | EPA 200.8                        | ug/L                     | 0.79   | 5.0      |   |  |
| Other                       | Hexavalent Chromium             | 18540-29-9                       | SW-846 7196A             | ug/L   | 2.7      | 10  |  |
|                             | TSS                             | WQ001                            | SM 2540D                 | mg/L   | NA       | 1.0   |  |
|                             | Hardness                        | Q356                             | SM 2340B                 | mg/L   | 0.066    | 1.7   |  |
| Discharge Water             | PCBs (Aroclors)                 | Aroclor 1016                     | 12674-11-2               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1221                     | 11104-28-2               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1232                     | 11141-16-5               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1242                     | 53469-21-9               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1248                     | 12672-29-6               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1254                     | 11097-69-1               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             |                                 | Aroclor 1260                     | 11096-82-5               | EPA 608  | ug/L     | 0.0029  | 0.010                                    |
|                             | Total PCBs<br>(sum of Aroclors) | 1336-36-3                        | EPA 608                  | ug/L   | 0.0029   | 0.010   |  |
|                             | Metals                          | Cd (Cadmium)                     | 7440-43-9                | EPA 200.8  | ug/L     | 0.089   | 1.0                                      |
|                             |                                 | Cr (Chromium)                    | 7440-47-3                | EPA 200.8  | ug/L     | 0.18  | 2.0                                      |
|                             |                                 | Cu (Copper)                      | 7440-50-8                | EPA 200.8  | ug/L     | 0.14  | 2.0                                      |
|                             |                                 | Hg (Mercury)                     | 7439-97-6                | EPA 1631   | ng/L     | 0.12  | 0.50                                     |
|                             |                                 | Pb (Lead)                        | 7439-92-1                | EPA 200.8  | ug/L     | 0.019   | 1.0                                      |
|                             | Other                           | TSS                              | WQ001                    | SM 2540D   | mg/L     | NA  | 4.0                                      |
|                             |                                 | TOC                              | OC003                    | SM 5310C   | mg/L     | NA  | 1.0                                      |
| Oil and Grease              |                                 | Q2240                            | EPA 1664                 | mg/L   | NA       | 5.0   |  |
| Settable Solids             |                                 | Q596                             | SM 2540F                 | ml/L   | NA       | 0.1   |  |
| Fish                        | PCBs (Congeners)                | Total PCB<br>(sum of congeners)  | 1336-36-3                | Green Bay Mass Balance<br>Method (S-NY-O-013-rev.11) | ug/g     | 0.0151  | 0.313                                    |
|                             |                                 | 02                               | 2051-60-7                | S-NY-O-013-rev.11                                    | ug/g     | 0.000995  | 0.0219                                   |
|                             |                                 | 03                               | 2051-61-8                | S-NY-O-013-rev.11                                    | ug/g     | 0.0281  | 5.00                                     |
|                             |                                 | 04                               | 2051-62-9                | S-NY-O-013-rev.11                                    | ug/g     | 0.000708  | 0.0128                                   |
|                             |                                 | 05                               | 13029-08-8<br>33146-45-1 | S-NY-O-013-rev.11                                    | ug/g     | 0.000381  | 0.00621                                  |
| 06                          | 33284-50-3<br>34883-39-1        | S-NY-O-013-rev.11                | ug/g                     | 0.0000975  | 0.00219  |   |  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix           | Category                        | Analyte Name or DB-1 Peak Number | CAS number(s)  | Analytical Method | Units | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|------------------|---------------------------------|----------------------------------|--|-------------------|-------|---|--|
| Fish (Continued) | PCBs (Congeners)<br>(Continued) | 07                               | 25569-80-6   | S-NY-O-013-rev.11 | ug/g  | 0.000183  | 0.00347                                  |
|                  |                                 | 08                               | 16605-91-7<br>34883-43-7                             | S-NY-O-013-rev.11 | ug/g  | 0.000746  | 0.0256                                   |
|                  |                                 | 09                               | 34883-41-5   | S-NY-O-013-rev.11 | ug/g  | 0.000178  | 0.125                                    |
|                  |                                 | 10                               | 38444-73-4   | S-NY-O-013-rev.11 | ug/g  | 0.000132  | 0.000512                                 |
|                  |                                 | 11                               | 35693-92-6   | S-NY-O-013-rev.11 | ug/g  | 0.000243  | 0.125                                    |
|                  |                                 | 12                               | 2050-67-1  | S-NY-O-013-rev.11 | ug/g  | 0.000837  | 0.125                                    |
|                  |                                 | 13                               | 2974-92-7<br>2974-90-5                               | S-NY-O-013-rev.11 | ug/g  | 0.000186  | 0.000488                                 |
|                  |                                 | 14                               | 2050-68-2<br>37680-65-2                              | S-NY-O-013-rev.11 | ug/g  | 0.000199  | 0.00676                                  |
|                  |                                 | 15                               | 37680-66-3   | S-NY-O-013-rev.11 | ug/g  | 0.000240  | 0.00676                                  |
|                  |                                 | 16                               | 55702-45-9<br>38444-76-7                             | S-NY-O-013-rev.11 | ug/g  | 0.0000274                                       | 0.000475                                 |
|                  |                                 | 17                               | 38444-78-9<br>38444-77-8                             | S-NY-O-013-rev.11 | ug/g  | 0.000266  | 0.00713                                  |
|                  |                                 | 19                               | 55720-44-0<br>37680-68-5<br>15968-05-5               | S-NY-O-013-rev.11 | ug/g  | 0.000180  | 0.125                                    |
|                  |                                 | 20                               | 15862-07-4   | S-NY-O-013-rev.11 | ug/g  | 0.0000482                                       | 0.0000970                                |
|                  |                                 | 21                               | 38444-81-4   | S-NY-O-013-rev.11 | ug/g  | 0.0000627                                       | 0.00132                                  |
|                  |                                 | 22                               | 55712-37-3   | S-NY-O-013-rev.11 | ug/g  | 0.0000386                                       | 0.000585                                 |
|                  |                                 | 23                               | 16606-02-3   | S-NY-O-013-rev.11 | ug/g  | 0.000331  | 0.00753                                  |
|                  |                                 | 24                               | 7012-37-5<br>62796-65-0                              | S-NY-O-013-rev.11 | ug/g  | 0.000841  | 0.00964                                  |
|                  |                                 | 25                               | 38444-84-7<br>55702-46-0<br>38444-86-9<br>41464-41-9 | S-NY-O-013-rev.11 | ug/g  | 0.000341  | 0.00726                                  |
|                  |                                 | 26                               | 38444-85-8<br>68194-04-7                             | S-NY-O-013-rev.11 | ug/g  | 0.000194  | 0.00530                                  |
|                  |                                 | 27                               | 70362-45-7   | S-NY-O-013-rev.11 | ug/g  | 0.0000521                                       | 0.00163                                  |
|                  |                                 | 28                               | 38444-87-0   | S-NY-O-013-rev.11 | ug/g  | 0.000236  | 0.125                                    |
|                  |                                 | 29                               | 41464-47-5   | S-NY-O-013-rev.11 | ug/g  | 0.0000456                                       | 0.000731                                 |
|                  |                                 | 30                               | 38444-88-1   | S-NY-O-013-rev.11 | ug/g  | 0.000186  | 0.125                                    |
|                  |                                 | 31                               | 35693-99-3<br>60233-24-1<br>74338-23-1               | S-NY-O-013-rev.11 | ug/g  | 0.000512  | 0.00872                                  |
|                  |                                 | 32                               | 70362-46-8<br>41464-40-8                             | S-NY-O-013-rev.11 | ug/g  | 0.000137  | 0.00420                                  |
|                  |                                 | 33                               | 53555-66-1<br>2437-79-8                              | S-NY-O-013-rev.11 | ug/g  | 0.000177  | 0.00183                                  |
|                  |                                 | 34                               | 70362-47-9<br>32598-12-2                             | S-NY-O-013-rev.11 | ug/g  | 0.000114  | 0.00183                                  |
|                  |                                 | 35                               | 54230-22-7<br>33284-54-7                             | S-NY-O-013-rev.11 | ug/g  | 0.000187  | 0.125                                    |
|                  |                                 | 36                               | 37680-69-6   | S-NY-O-013-rev.11 | ug/g  | 0.000225  | 0.125                                    |
|                  |                                 | 37                               | 56558-16-8<br>41464-39-5                             | S-NY-O-013-rev.11 | ug/g  | 0.000382  | 0.00786                                  |
|                  |                                 | 38                               | 38444-90-5<br>36559-22-5<br>74472-33-6               | S-NY-O-013-rev.11 | ug/g  | 0.000250  | 0.00475                                  |
|                  |                                 | 39                               | 52663-59-9<br>52663-58-8<br>41464-46-4<br>41464-42-0 | S-NY-O-013-rev.11 | ug/g  | 0.000192  | 0.00749                                  |
|                  |                                 | 41                               | 73575-52-7<br>73575-54-9                             | S-NY-O-013-rev.11 | ug/g  | 0.000211  | 0.125                                    |
|                  |                                 | 42                               | 38444-93-8   | S-NY-O-013-rev.11 | ug/g  | 0.0000536                                       | 0.00172                                  |
|                  |                                 | 43                               | 70424-67-8<br>60145-21-3                             | S-NY-O-013-rev.11 | ug/g  | 0.000167  | 0.125                                    |
|                  |                                 | 44                               | 41464-49-7<br>73575-53-8<br>39485-83-1               | S-NY-O-013-rev.11 | ug/g  | 0.0000672                                       | 0.000201                                 |
|                  |                                 | 45                               | 74472-34-7   | S-NY-O-013-rev.11 | ug/g  | 0.000124  | 0.000384                                 |
|                  |                                 | 46                               | 32690-93-0<br>73575-55-0<br>33284-53-6               | S-NY-O-013-rev.11 | ug/g  | 0.000168  | 0.00347                                  |
|                  |                                 | 47                               | 32598-11-1   | S-NY-O-013-rev.11 | ug/g  | 0.000413  | 0.00621                                  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix           | Category                        | Analyte Name or DB-1 Peak Number | CAS number(s) | Analytical Method | Units     | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|------------------|---------------------------------|----------------------------------|---------------|-------------------|-----------|---|--|
| Fish (Continued) | PCBs (Congeners)<br>(Continued) | 48                               | 32598-10-0    | S-NY-O-013-rev.11 | ug/g      | 0.000644  | 0.0132                                   |
|                  |                                 |                                  | 70362-48-0    |                   |           |   |  |
|                  |                                 | 49                               | 60233-25-2    | S-NY-O-013-rev.11 | ug/g      | 0.0000530                                       | 0.000932                                 |
|                  |                                 |                                  | 33284-52-5    |                   |           |   |  |
|                  |                                 | 50                               | 73575-56-1    | S-NY-O-013-rev.11 | ug/g      | 0.000252  | 0.00640                                  |
|                  |                                 |                                  | 38379-99-6    |                   |           |   |  |
|                  |                                 | 51                               | 68194-06-9    | S-NY-O-013-rev.11 | ug/g      | 0.000119  | 0.00329                                  |
|                  |                                 |                                  | 55215-17-3    |                   |           |   |  |
|                  |                                 | 52                               | 74338-24-2    | S-NY-O-013-rev.11 | ug/g      | 0.0000641                                       | 0.000183                                 |
|                  |                                 |                                  | 68194-05-8    |                   |           |   |  |
|                  |                                 | 53                               | 56558-18-0    | S-NY-O-013-rev.11 | ug/g      | 0.000115  | 0.00329                                  |
|                  |                                 |                                  | 41464-43-1    |                   |           |   |  |
|                  |                                 | 54                               | 33025-41-1    | S-NY-O-013-rev.11 | ug/g      | 0.0000516                                       | 0.00135                                  |
|                  |                                 |                                  | 52663-60-2    |                   |           |   |  |
|                  |                                 | 55                               | 52663-61-3    | S-NY-O-013-rev.11 | ug/g      | 0.0000212                                       | 0.0000512                                |
|                  |                                 |                                  | 33979-03-2    |                   |           |   |  |
|                  |                                 | 56                               | 73575-57-2    | S-NY-O-013-rev.11 | ug/g      | 0.0000758                                       | 0.000274                                 |
|                  |                                 |                                  | 68194-07-0    |                   |           |   |  |
|                  |                                 | 57                               | 37680-73-2    | S-NY-O-013-rev.11 | ug/g      | 0.0000551                                       | 0.00102                                  |
|                  |                                 |                                  | 41464-48-6    |                   |           |   |  |
|                  |                                 | 58                               | 38380-01-7    | S-NY-O-013-rev.11 | ug/g      | 0.0000887                                       | 0.00212                                  |
|                  |                                 |                                  | 68194-10-5    |                   |           |   |  |
|                  |                                 | 59                               | 56558-17-9    | S-NY-O-013-rev.11 | ug/g      | 0.0000866                                       | 0.00128                                  |
|                  |                                 |                                  | 68194-08-1    |                   |           |   |  |
|                  |                                 | 60                               | 70362-49-1    | S-NY-O-013-rev.11 | ug/g      | 0.0000688                                       | 0.00137                                  |
|                  |                                 |                                  | 60145-20-2    |                   |           |   |  |
| 61               | 74472-36-9                      | S-NY-O-013-rev.11                | ug/g          | 0.000106          | 0.00389   |   |  |
|                  | 70362-41-3                      |                                  |               |                   |           |   |  |
| 62               | 41464-51-1                      | S-NY-O-013-rev.11                | ug/g          | 0.000201          | 0.125     |   |  |
|                  | 68194-09-2                      |                                  |               |                   |           |   |  |
| 63               | 55312-69-1                      | S-NY-O-013-rev.11                | ug/g          | 0.0000359         | 0.000804  |   |  |
|                  | 70362-50-4                      |                                  |               |                   |           |   |  |
| 64               | 38380-02-8                      | S-NY-O-013-rev.11                | ug/g          | 0.000119          | 0.00311   |   |  |
|                  | 68194-11-06                     |                                  |               |                   |           |   |  |
| 65               | 74472-39-2                      | S-NY-O-013-rev.11                | ug/g          | 0.0000181         | 0.000530  |   |  |
|                  | 39635-32-0                      |                                  |               |                   |           |   |  |
| 66               | 74472-38-1                      | S-NY-O-013-rev.11                | ug/g          | 0.0000535         | 0.00110   |   |  |
|                  | 74472-40-5                      |                                  |               |                   |           |   |  |
| 67               | 18259-05-7                      | S-NY-O-013-rev.11                | ug/g          | 0.000109          | 0.000237  |   |  |
|                  | 65510-45-4                      |                                  |               |                   |           |   |  |
| 68               | 68194-12-7                      | S-NY-O-013-rev.11                | ug/g          | 0.000246          | 0.125     |   |  |
|                  | 38411-22-2                      |                                  |               |                   |           |   |  |
| 69               | 32598-13-3                      | S-NY-O-013-rev.11                | ug/g          | 0.000218          | 0.00731   |   |  |
|                  | 38380-03-9                      |                                  |               |                   |           |   |  |
| 70               | 74472-41-6                      | S-NY-O-013-rev.11                | ug/g          | 0.000174          | 0.125     |   |  |
|                  | 60145-22-4                      |                                  |               |                   |           |   |  |
| 71               | 52663-62-4                      | S-NY-O-013-rev.11                | ug/g          | 0.000307          | 0.000369  |   |  |
|                  | 52663-63-5                      |                                  |               |                   |           |   |  |
| 72               | 70424-70-3                      | S-NY-O-013-rev.11                | ug/g          | 0.0000185         | 0.0000569 |   |  |
|                  | 52744-13-5                      |                                  |               |                   |           |   |  |
| 73               | 68194-14-9                      | S-NY-O-013-rev.11                | ug/g          | 0.0000361         | 0.000713  |   |  |
|                  | 70424-68-9                      |                                  |               |                   |           |   |  |
| 74               | 74472-35-8                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 68194-13-8                      |                                  |               |                   |           |   |  |
| 75               | 65510-44-3                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 70424-69-0                      |                                  |               |                   |           |   |  |
| 76               | 31508-00-6                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 56030-56-9                      |                                  |               |                   |           |   |  |
| 77               | 38380-04-0                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 59291-64-4                      |                                  |               |                   |           |   |  |
| 78               | 74472-37-0                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 52704-70-8                      |                                  |               |                   |           |   |  |
| 79               | 68194-15-0                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 76842-07-4                      |                                  |               |                   |           |   |  |
| 80               | 61798-70-7                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 35694-04-3                      |                                  |               |                   |           |   |  |
| 81               | 41411-61-4                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 51908-16-8                      |                                  |               |                   |           |   |  |
| 82               | 74472-46-1                      | S-NY-O-013-rev.11                | ug/g          |                   |           |   |  |
|                  | 74487-85-7                      |                                  |               |                   |           |   |  |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix           | Category                        | Analyte Name or DB-1 Peak Number | CAS number(s)                          | Analytical Method                  | Units     | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |
|------------------|---------------------------------|----------------------------------|--|------------------------------------|-----------|---|--|
| Fish (Continued) | PCBs (Congeners)<br>(Continued) | 74                               | 32598-14-4<br>38380-05-1<br>74472-43-8 | S-NY-O-013-rev.11                  | ug/g      | 0.0000647                                       | 0.00248                                  |
|                  |                                 | 75                               | 35065-27-1                             | S-NY-O-013-rev.11                  | ug/g      | 0.000179  | 0.00538                                  |
|                  |                                 | 76                               | 39635-33-1<br>59291-65-5<br>74472-48-3 | S-NY-O-013-rev.11                  | ug/g      | 0.000146  | 0.125                                    |
|                  |                                 | 77                               | 52712-04-6                             | S-NY-O-013-rev.11                  | ug/g      | 0.000101  | 0.00311                                  |
|                  |                                 | 78                               | 52663-64-6                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000748                                       | 0.00267                                  |
|                  |                                 | 79                               | 35694-06-5                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000646                                       | 0.000137                                 |
|                  |                                 | 80                               | 52663-66-8<br>52663-65-7               | S-NY-O-013-rev.11                  | ug/g      | 0.0000206                                       | 0.000475                                 |
|                  |                                 | 82                               | 35065-28-2<br>74472-44-9<br>74472-45-0 | S-NY-O-013-rev.11                  | ug/g      | 0.000188  | 0.00493                                  |
|                  |                                 | 83                               | 74472-42-7<br>41411-62-5<br>74472-49-4 | S-NY-O-013-rev.11                  | ug/g      | 0.0000292                                       | 0.000457                                 |
|                  |                                 | 84                               | 57465-28-8<br>55215-18-4               | S-NY-O-013-rev.11                  | ug/g      | 0.00000600                                      | 0.0000236                                |
|                  |                                 | 85                               | 41411-63-6<br>52663-67-9               | S-NY-O-013-rev.11                  | ug/g      | 0.000100  | 0.00201                                  |
|                  |                                 | 87                               | 40186-70-7<br>39635-35-3               | S-NY-O-013-rev.11                  | ug/g      | 0.000115  | 0.000366                                 |
|                  |                                 | 88                               | 60145-23-5<br>52663-68-0               | S-NY-O-013-rev.11                  | ug/g      | 0.000198  | 0.00658                                  |
|                  |                                 | 89                               | 38380-07-3<br>39635-34-2               | S-NY-O-013-rev.11                  | ug/g      | 0.0000944                                       | 0.000183                                 |
|                  |                                 | 90                               | 52663-69-1                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000960                                       | 0.00311                                  |
|                  |                                 | 91                               | 52663-72-6                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000546                                       | 0.0000897                                |
|                  |                                 | 92                               | 52712-05-7                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000473                                       | 0.000859                                 |
|                  |                                 | 93                               | 38411-25-5<br>74472-47-2               | S-NY-O-013-rev.11                  | ug/g      | 0.000244  | 0.00585                                  |
|                  |                                 | 94                               | 52663-70-4                             | S-NY-O-013-rev.11                  | ug/g      | 0.000121  | 0.00311                                  |
|                  |                                 | 95                               | 38380-08-4<br>52663-71-5               | S-NY-O-013-rev.11                  | ug/g      | 0.0000555                                       | 0.00144                                  |
|                  |                                 | 96                               | 69782-90-7<br>2136-99-4                | S-NY-O-013-rev.11                  | ug/g      | 0.00000591                                      | 0.000121                                 |
|                  |                                 | 98                               | 68194-16-1                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000270                                       | 0.0000695                                |
|                  |                                 | 99                               | 40186-71-8                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000231                                       | 0.000713                                 |
|                  |                                 | 100                              | 52663-74-8<br>74472-52-9               | S-NY-O-013-rev.11                  | ug/g      | 0.0000289                                       | 0.00102                                  |
|                  |                                 | 101                              | 74472-51-8<br>33091-17-7               | S-NY-O-013-rev.11                  | ug/g      | 0.0000596                                       | 0.000201                                 |
|                  |                                 | 102                              | 35065-29-3                             | S-NY-O-013-rev.11                  | ug/g      | 0.000297  | 0.0111                                   |
|                  |                                 | 103                              | 69782-91-8                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000314                                       | 0.000768                                 |
|                  |                                 | 104                              | 74472-50-7                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000834                                       | 0.000219                                 |
|                  |                                 | 105                              | 52663-73-7<br>32774-16-6               | S-NY-O-013-rev.11                  | ug/g      | 0.0000259                                       | 0.000786                                 |
|                  |                                 | 106                              | 35065-30-6                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000661                                       | 0.00234                                  |
|                  |                                 | 107                              | 41411-64-7                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000402                                       | 0.000768                                 |
|                  |                                 | 108                              | 68194-17-2                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000704                                       | 0.000219                                 |
|                  |                                 | 109                              | 52663-75-9                             | S-NY-O-013-rev.11                  | ug/g      | 0.000275  | 0.00768                                  |
|                  |                                 | 110                              | 42740-50-1<br>52663-76-0               | S-NY-O-013-rev.11                  | ug/g      | 0.000275  | 0.00786                                  |
|                  |                                 | 111                              | 39635-31-9                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000423                                       | 0.0000798                                |
|                  |                                 | 112                              | 52663-78-2                             | S-NY-O-013-rev.11                  | ug/g      | 0.0000254                                       | 0.00101                                  |
|                  |                                 | 113                              | 52663-77-1                             | S-NY-O-013-rev.11                  | ug/g      | 0.000163  | 0.000451                                 |
|                  |                                 | 114 (surrogate)                  | 52663-79-3                             | S-NY-O-013-rev.11                  | ug/g      | 0.00000900                                      | surrogate**                              |
| 115              | 35694-08-7                      | S-NY-O-013-rev.11                | ug/g                                   | 0.0000861                          | 0.00329   |   |  |
| 116              | 74472-53-0                      | S-NY-O-013-rev.11                | ug/g                                   | 0.0000931                          | 0.000201  |   |  |
| 117              | 40186-72-9                      | S-NY-O-013-rev.11                | ug/g                                   | 0.0000348                          | 0.00124   |   |  |
| 118              | 2051-24-3                       | S-NY-O-013-rev.11                | ug/g                                   | 0.0000112                          | 0.0000222 |   |  |
|                  | PCBs (Aroclors)                 | Aroclor 1016                     | 12674-11-2                             | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g      | 0.0247  | 0.0500                                   |
|                  |                                 | Aroclor 1221                     | 11104-28-2                             | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g      | 0.0247  | 0.0500                                   |
|                  |                                 | Aroclor 1232                     | 11141-16-5                             | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g      | 0.0247  | 0.0500                                   |

**Table A1-2  
Reference Limit and Evaluation**

| Matrix                          | Category                       | Analyte Name or DB-1 Peak Number | CAS number(s) | Analytical Method                  | Units             | Laboratory Method Detection Limits <sup>1</sup> | Laboratory Reporting Limits <sup>1</sup> |       |
|---------------------------------|--------------------------------|----------------------------------|---------------|------------------------------------|-------------------|---|--|-------|
| Fish (Continued)                | PCBs (Aroclors)<br>(Continued) | Aroclor 1242                     | 53469-21-9    | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g              | 0.0247  | 0.0500                                   |       |
|                                 |                                | Aroclor 1248                     | 12672-29-6    | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g              | 0.0247  | 0.0500                                   |       |
|                                 |                                | Aroclor 1254                     | 11097-69-1    | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g              | 0.0247  | 0.0500                                   |       |
|                                 |                                | Aroclor 1260                     | 11096-82-5    | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g              | 0.0247  | 0.0500                                   |       |
|                                 | PCBs (Aroclors)                | Total PCBs<br>(sum of Aroclors)  | 1336-36-3     | SW846 8082A<br>(S-NY-O-314-rev.00) | ug/g              | 0.0247  | 0.0500                                   |       |
|                                 | Other                          | Percent Lipid                    | LP001         | NE158_05                           | %                 | NA  | 0.03                                     |       |
| Sediment                        | PCBs (Aroclors) -<br>Microwave | Aroclor 1016                     | 12674-11-2    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1221                     | 11104-28-2    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1232                     | 11141-16-5    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1242                     | 53469-21-9    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1248                     | 12672-29-6    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1254                     | 11097-69-1    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Aroclor 1260                     | 11096-82-5    | GEHR8082                           | mg/kg             | 0.019   | 0.050                                    |       |
|                                 |                                | Total PCBs<br>(sum of Aroclors)  | 1336-36-3     | GEHR8082                           | mg/kg             | 0.019   | 0.20                                     |       |
|                                 | PCBs (Aroclors) -<br>ASE       | Aroclor 1016                     | 12674-11-2    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1221                     | 11104-28-2    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1232                     | 11141-16-5    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1242                     | 53469-21-9    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1248                     | 12672-29-6    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1254                     | 11097-69-1    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Aroclor 1260                     | 11096-82-5    | GEHR8082                           | mg/kg             | 0.029   | 0.050                                    |       |
|                                 |                                | Total PCBs<br>(sum of Aroclors)  | 1336-36-3     | GEHR8082                           | mg/kg             | 0.029   | 0.20                                     |       |
|                                 | Other                          | TOC                              | OC002         | Lloyd Kahn                         | mg/Kg             | NA  | 200                                      |       |
|                                 |                                | Percent Moisture                 | WC002         | ASTM D2216-98                      | %                 | NA  | 0.020                                    |       |
|                                 | Air                            | PCBs (Aroclors)                  | Aroclor 1016  | 12674-11-2                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
|                                 |                                |                                  | Aroclor 1221  | 11104-28-2                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
|                                 |                                |                                  | Aroclor 1232  | 11141-16-5                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
|                                 |                                |                                  | Aroclor 1242  | 53469-21-9                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
|                                 |                                |                                  | Aroclor 1248  | 12672-29-6                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
|                                 |                                |                                  | Aroclor 1254  | 11097-69-1                         | TO-4A             | ng/m <sup>3</sup>                               | 0.101                                    | 0.347 |
| Aroclor 1260                    |                                |                                  | 11096-82-5    | TO-4A                              | ng/m <sup>3</sup> | 0.101   | 0.347                                    |       |
| Total PCBs<br>(sum of Aroclors) |                                |                                  | 1336-36-3     | TO-4A                              | ng/m <sup>3</sup> | 0.101   | 0.347                                    |       |
| PCBs (Aroclors)                 |                                | Aroclor 1016                     | 12674-11-2    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1221                     | 11104-28-2    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1232                     | 11141-16-5    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1242                     | 53469-21-9    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1248                     | 12672-29-6    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1254                     | 11097-69-1    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Aroclor 1260                     | 11096-82-5    | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |
|                                 |                                | Total PCBs<br>(sum of Aroclors)  | 1336-36-3     | TO-10A                             | ng/m <sup>3</sup> | 5.13  | 13.9                                     |       |

Notes

<sup>1</sup> The MDLs and RLs will be adjusted for sample specific factors such as % solids, weights/volumes and dilutions that vary from the standard procedure. Sample-specific MDLs and RLs are highly matrix dependent. The MDLs and RLs reported for the Air Matrix are based on the anticipated volume of air to be collected in the field (288 m<sup>3</sup> for TO-4A and 7.2 m<sup>3</sup> for TO-10A). Data will be evaluated against sample-specific MDLs and RLs. Non-detects, or values detected at a level below the sample specific MDL, will be reported as the sample specific MDL and U flagged (with the exception of analytes where MDL is NA). Values detected above the sample-specific MDL and below the sample-specific RL will be reported and flagged as estimated ("J").

NA - Not Applicable. Method detection limit (MDL) reporting will not be used for this analyte. The analyte will be reported to the Reporting Limit (RL).

\*\* - Peak 114 corresponds to IUPAC 207, which is the surrogate. The surrogate was not included in the Green Bay MDL study performed for fish or sediment.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 04, 2015

**Lab Report ID:** 15060109

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 08, 2015

CASE NARRATIVE

This data package (SDG ID: 15060109) consists of 2 water samples received on 6/4/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS11837              | FRS-LOC5-T150604085101 | 6/4/2015 06:00         |
| AS11838              | FRS-WAFA-T150604085226 | 6/4/2015 06:00         |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/4/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (4.) Quality control samples (LAB ID: AS11838B and AS11838L) were re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.
- (5.) The chromatograms for samples (LAB ID: AS11837 and AS11838) exhibited a non-PCB peak which elute within the retention time window for quantitation peak 12. This peak caused the calculated concentration to exceed the MDL for A1248. Actual Aroclor 1248 patterns were not observed in the sample and the sample was reported as non-detect. Please see associated chromatograms for details.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Monroeville, NJ 07645 Ph: 201-936-9896

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150604090404PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID        | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|------------------------|-------|-----------|----------------|----------------|--------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | FRS-LOC5-T150604085101 | ENV   | W         | 06/04/2015     | 06:00          | W      | 3            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 24           | 4degC |
|                   |                        |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |
| 002               | FRS-WAFA-T150604085226 | ENV   | W         | 06/04/2015     | 06:00          | W      | 4            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |        |              |                | Total Suspended Solids | SM 2540D | N   | N  | Y                      | 24           | 4degC |
|                   |                        |       |           |                |                |        |              |                | Aroclor Water          | NE273_04 | Y   | N  | N                      | 24           | 4degC |

A511837

A511838

3

Comments: Temp: 2.0 (IR), 3.0, 2.7 COC seal: (P)

| Relinquished by: |            | Received by: |            | Relinquished by: |            | Received by: |            | Relinquished by: |            | Received by: |            |
|------------------|------------|--------------|------------|------------------|------------|--------------|------------|------------------|------------|--------------|------------|
| Signature        | Signature  | Signature    | Signature  | Signature        | Signature  | Signature    | Signature  | Signature        | Signature  | Signature    | Signature  |
| Print Name       | Print Name | Print Name   | Print Name | Print Name       | Print Name | Print Name   | Print Name | Print Name       | Print Name | Print Name   | Print Name |
| Company          | Company    | Company      | Company    | Company          | Company    | Company      | Company    | Company          | Company    | Company      | Company    |
| Date/Time        | Date/Time  | Date/Time    | Date/Time  | Date/Time        | Date/Time  | Date/Time    | Date/Time  | Date/Time        | Date/Time  | Date/Time    | Date/Time  |

Date Printed: 6/4/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



**Sample Condition Upon Receipt**



CLIENT NAME: GP  
 PROJECT: AR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # NA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None   
 THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 20 (IR) 3.0, 2.7  
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

**COMMENTS:**

|  |   |  |   |                                   |  |
|--|---|--|---|-----------------------------------|--|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |                                   |  |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |                                   |  |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |                                   |  |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |                                   |  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |                                   |  |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |                                   |  |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>24 hr</u>                         |                                   |  |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |                                   |  |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |                                   |  |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |                                   |  |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |                                   |  |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 11.                               |  |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |                                   |  |
| - Includes date/time/ID/Analysis   |   |  |   |                                   |  |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 13.                               |  |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                                   |  |
| - Exceptions that are not checked: VOA   |   |  |   | Initial when completed: <u>NA</u> | Lot # of added preservative: <u>NA</u> |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.                               |  |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.                               |  |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |                                   |  |
| Pace Trip Blank Lot #: <u>NA</u>   |   |  |   |                                   |  |

Sample Receipt form filled in: AJM 6/4/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):

Log In (Includes notifying PM of any discrepancies and documenting in LIMS):

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

AJM 6/4/15  
AJM 6/4/15  
AJM 6/4/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060109

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060109  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/04/2015 12:40  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 3  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0 (IR), 3.0, 2.7 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150604085101 (AS11837) | *24 HOUR* 06-05-15        | 06/04/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-05-15        | 06/04/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150604085226 (AS11838) | *24 HOUR* 06-05-15        | 06/04/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-05-15        | 06/04/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           | MS         |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/04/15

Batch ID: 30943

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307534        | PBLK-07       | AS11838B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 2       | 307533        | LCS-07        | AS11838L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 3       | 307526        | 15060109-02MS | AS11838M | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 4       | 307525        | 15060109-01   | AS11837  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 5       | 307527        | 15060109-02   | AS11838  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 960                 | NA                   | NA                  | NA                   | NA                                  | 06/04                    | NA                          | 06/04                 | 06/04               | 5                 | 06/04    |  |
| 6       | 307528        | 15060107-03   | AS11829  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 7       | 307529        | 15060107-04   | AS11830  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 8       | 307530        | 15060107-05   | AS11831  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1020                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 9       | 307531        | 15060107-06   | AS11832  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 10      | 307532        | 15060107-07   | AS11833  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 11      | 307535        | 15060107-01   | AS11827  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 12      | 307536        | 15060107-02   | AS11828  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                                   | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar) CURRENT              | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaal*

Elizabeth Ramkirpaal

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060109**

**Batch ID: 30943**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11838BRR1   | GC28F-1633-28 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838LRR1   | GC28F-1633-29 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838M      | GC28F-1633-19 | Water  | 06/04/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11837       | GC28F-1633-20 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11838       | GC28F-1633-21 | Water  | 06/04/15  | 960                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11829       | GC28F-1634-7  | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11830RR1    | GC28F-1635-9  | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11831RR1    | GC28F-1635-10 | Water  | 06/04/15  | 1020                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11832       | GC28F-1634-10 | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11833RR1    | GC28F-1635-11 | Water  | 06/04/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11827       | GC28F-1634-12 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11828RR1    | GC28F-1635-12 | Water  | 06/04/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060109

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID        | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|---------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-07RR1    | AS11838BRR1   | GC28F-1633-28 | 90.6                   | 100                    |           |           | 0         |
| LCS-07RR1     | AS11838LRR1   | GC28F-1633-29 | 91.4                   | 100                    |           |           | 0         |
| 15060109-01   | AS11837       | GC28F-1633-20 | 92.9                   | 93.1                   |           |           | 0         |
| 15060109-02   | AS11838       | GC28F-1633-21 | 93.9                   | 91.5                   |           |           | 0         |
| 15060109-02MS | AS11838M      | GC28F-1633-19 | 97.9                   | 91.4                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# MATRIX SPIKE SUMMARY

**3F-1**  
**MATRIX SPIKE (MS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

ELAP ID No: 11078

SDG No: 15060109

MS LRF ID: 15060109-02MS

Sample LRF ID: 15060109-02

MS Lab File ID: GC28F-1633-19

Sample File ID: GC28F-1633-21

MS Sample Inj Date: 06/04/2015 17:21:27

Sample Inj Date: 06/04/2015 17:49:10

MS Lab Sample ID: AS11838M

Sample ID: AS11838

| COMPOUND     | CALC. SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS PERCENT RECOVERY # | QC LIMITS <sup>1</sup> PERCENT RECOVERY |
|--------------|--------------------------|-----------------------------|-------------------------|-----------------------|---|
| Aroclor 1242 | 0.250                    | 0.0747                      | 0.357                   | 113                   | (70.0-130)                              |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup> QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060109</u>                           |
| LCS Lab ID: <u>LCS-07RR1</u>             | Blank Sample ID: <u>PBLK-07RR1</u>                |
| LCS File ID: <u>GC28F-1633-29</u>        | Method Blank File ID: <u>GC28F-1633-28</u>        |
| LCS Inj Date: <u>06/04/2015 20:17:30</u> | Method Blank Inj Date: <u>06/04/2015 20:03:30</u> |
| LCS ID: <u>AS11838LRR1</u>               | Method Blank ID: <u>AS11838BRR1</u>               |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.244                       | 97.7                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060109

ELAP ID No: 11078

Blank Sample ID: PBLK-07RR1

Matrix: Water

Method Blank ID: AS11838BRR1

Instrument ID: GC28F

Lab File ID: GC28F-1633-28

Extraction Type: 1L - Solid Phase Extraction

Date Extracted: 06/04/2015

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

Date Analyzed: 06/04/2015

Time Analyzed: 20:03:30

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| FRS-WAFA-T150604085226 MS | AS11838M         | GC28F-1633-19  | 06/04/2015 17:21:27     |
| FRS-LOC5-T150604085101    | AS11837          | GC28F-1633-20  | 06/04/2015 17:35:19     |
| FRS-WAFA-T150604085226    | AS11838          | GC28F-1633-21  | 06/04/2015 17:49:10     |
| LCS-07(LAB CONTROL SPIKE) | AS11838LRR1      | GC28F-1633-29  | 06/04/2015 20:17:30     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060109</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060109-01</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-LOC5-T150604085101</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS11837</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-20</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.201                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0436                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0115                | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11837                 | Sample Amount (L) : | 1.0400                      |
| Sample ID:         | FRS-LOC5-T150604085101  | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 5:35:19 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:07:54 PM EDT     |
| Sample Set Name:   | GC28F_W_060415          | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:32 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-20 [m]           |

**Peak Results**

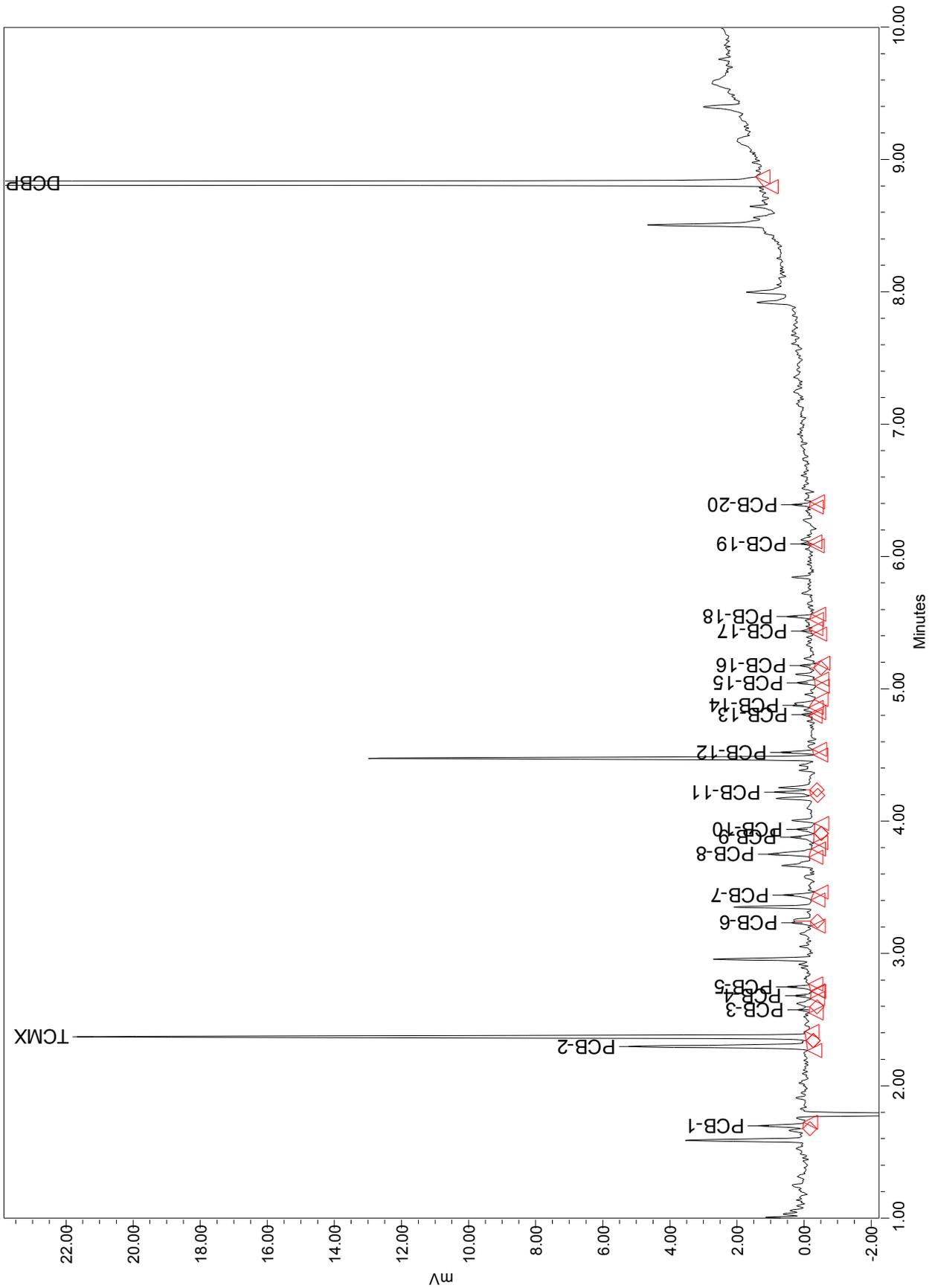
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | Vb               | 1522          |                      |             |             |
| 2  | PCB-2     | 2.297          | bV               | 7175          |                      |             |             |
| 3  | TCMX      | 2.370          | Vb               | 22693         | 4.644                | 92.9        |             |
| 4  | PCB-3     | 2.574          | bV               | 482           |                      |             |             |
| 5  | PCB-4     | 2.680          | BB               | 587           |                      |             |             |
| 6  | PCB-5     | 2.747          | Bb               | 735           |                      |             |             |
| 7  | PCB-6     | 3.232          | bV               | 735           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 1232          |                      |             |             |
| 9  | PCB-8     | 3.751          | bb               | 2051          |                      |             |             |
| 10 | PCB-9     | 3.879          | bV               | 1142          |                      |             |             |
| 11 | PCB-10    | 3.938          | Vb               | 922           |                      |             |             |
| 12 | PCB-11    | 4.219          | VV               | 1197          |                      |             |             |
| 13 | PCB-12    | 4.520          | bb               | 1055          |                      |             |             |
| 14 | PCB-13    | 4.806          | bb               | 212           |                      |             |             |
| 15 | PCB-14    | 4.875          | bb               | 1005          |                      |             |             |
| 16 | PCB-15    | 5.045          | bb               | 754           |                      |             |             |
| 17 | PCB-16    | 5.175          | Vb               | 537           |                      |             |             |
| 18 | PCB-17    | 5.436          | bb               | 307           |                      |             |             |
| 19 | PCB-18    | 5.546          | bb               | 722           |                      |             |             |
| 20 | PCB-19    | 6.095          | bb               | 224           |                      |             |             |
| 21 | PCB-20    | 6.391          | bb               | 559           |                      |             |             |
| 22 | DCBP      | 8.821          | bb               | 190949        | 46.543               |             | 93.1        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 6082.6730           | 7.055                | 0.03392     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 10500.8424          | 41.791               | 0.20092     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 3325.8438           | 14.518               | 0.06980     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 9766.1722           | 77.819               | 0.37413     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 6082.2789           | 13.934              | 0.06699     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 2889.1277           | 13.707              | 0.06590     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 6082.6730           | 9.073               | 0.04362     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 4222.6342           | 5.194               | 0.02497     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 2272.2689           | 4.707               | 0.02263     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 2463.4975           | 6.594               | 0.03170     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 2348.1046           | 2.382               | 0.01145     | 0.0250   | 0.00873  | X      | AF,J |
| 12 | A1254-17/18 | 1319.7535           | 2.383               | 0.01146     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 1565.3780           | 2.582               | 0.01242     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 1789.1687           | 2.414               | 0.01160     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 558.9359            | 0.343               | 0.00165     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 558.9359            | 1.006               | 0.00484     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 558.9359            |                     |             |          |          | NR     |      |



SampleName AS11837; Sample\_ID FRS-LOC5-T150604085101



|                    |                        |                      |                     |
|--------------------|------------------------|----------------------|---------------------|
| Lab ID:            | AS11837                | Current Date Time:   | 6/8/2015 10:39:29   |
| Sample ID:         | FRS-LOC5-T150604085101 | LIMS File ID:        | GC28F-1633-20       |
| Matrix:            | Water                  | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/4/2015 5:35:19 PM    | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{10500.842437 - -16.185578}{251.658479} = 41.7909 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{41.7909 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1040 \text{ mL}} = 0.201 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

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**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060109</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060109-02</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150604085226</u> |
| Sample wt(Dry)/vol: <u>960 mL</u>                                      | Lab Sample ID: <u>AS11838</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-21</u>        |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0260                | U    |
| 11104-28-2 | Aroclor 1221  | 0.193                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0260                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0747                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0260                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0180                | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0260                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838                 | Sample Amount (L) : | 0.9600                      |
| Sample ID:         | FRS-WAFA-T150604085226  | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 5:49:10 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:05:28 PM EDT     |
| Sample Set Name:   | GC28F_W_060415          | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:38 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-21 [m]           |

**Peak Results**

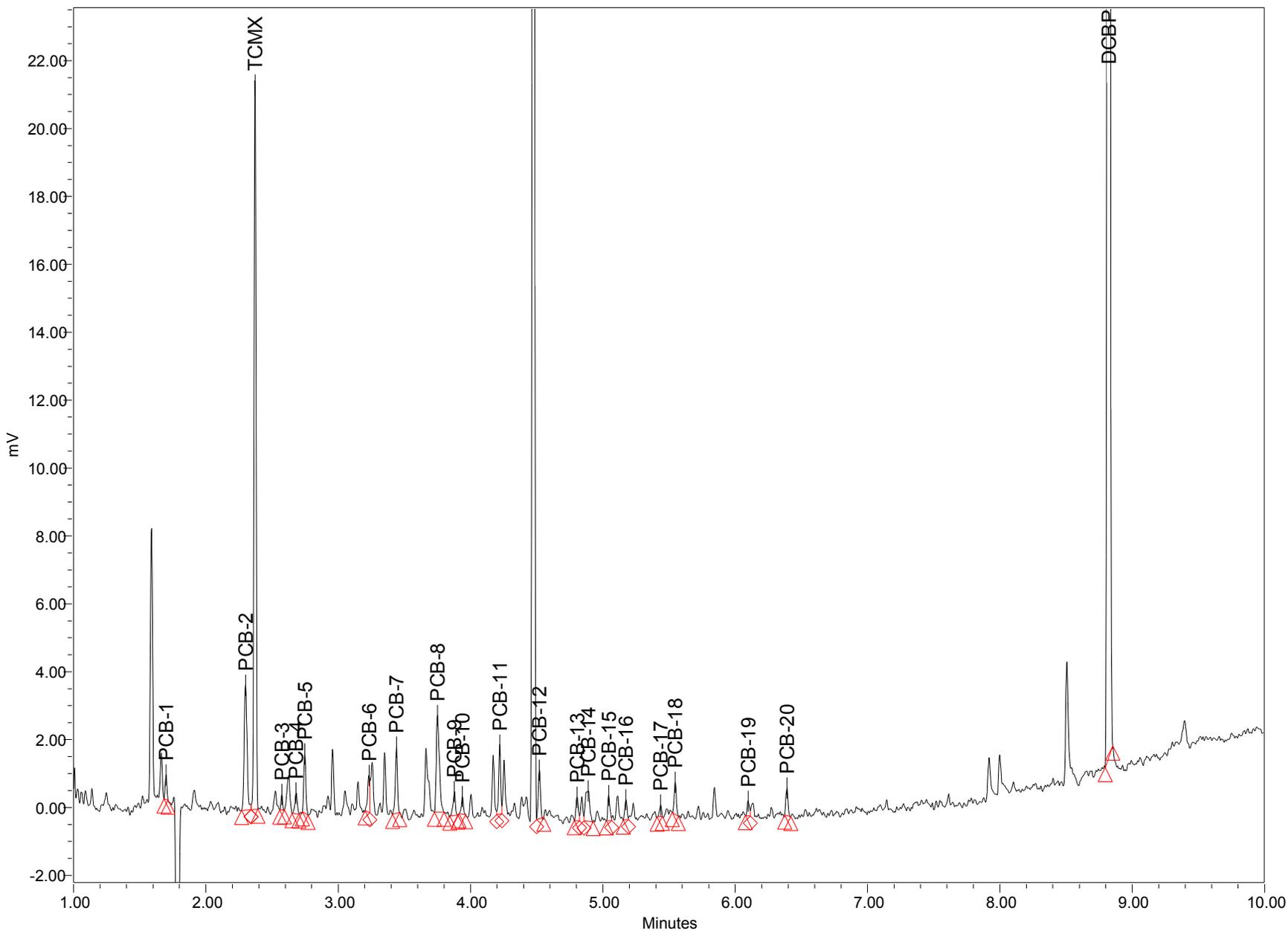
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bb               | 684           |                      |             |             |
| 2  | PCB-2     | 2.299          | bV               | 5599          |                      |             |             |
| 3  | TCMX      | 2.371          | Vb               | 22948         | 4.697                | 93.9        |             |
| 4  | PCB-3     | 2.573          | bb               | 405           |                      |             |             |
| 5  | PCB-4     | 2.682          | bb               | 776           |                      |             |             |
| 6  | PCB-5     | 2.747          | bb               | 1867          |                      |             |             |
| 7  | PCB-6     | 3.233          | bV               | 1295          |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 2192          |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 4625          |                      |             |             |
| 10 | PCB-9     | 3.878          | bb               | 865           |                      |             |             |
| 11 | PCB-10    | 3.938          | bb               | 566           |                      |             |             |
| 12 | PCB-11    | 4.220          | VV               | 2164          |                      |             |             |
| 13 | PCB-12    | 4.520          | Vb               | 1659          |                      |             |             |
| 14 | PCB-13    | 4.804          | bV               | 842           |                      |             |             |
| 15 | PCB-14    | 4.888          | Vb               | 2068          |                      |             |             |
| 16 | PCB-15    | 5.044          | bV               | 825           |                      |             |             |
| 17 | PCB-16    | 5.174          | bV               | 680           |                      |             |             |
| 18 | PCB-17    | 5.436          | bb               | 363           |                      |             |             |
| 19 | PCB-18    | 5.547          | bb               | 1040          |                      |             |             |
| 20 | PCB-19    | 6.097          | bV               | 516           |                      |             |             |
| 21 | PCB-20    | 6.390          | bb               | 935           |                      |             |             |
| 22 | DCBP      | 8.822          | bb               | 187849        | 45.732               |             | 91.5        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 9543.3536           | 11.171               | 0.05818     | 0.0260   | 0.00910  | NR     |      |
| 2 | A1221      | 9330.5525           | 37.141               | 0.19344     | 0.0260   | 0.00910  | X      | PB   |
| 3 | A1221-2    | 3731.8737           | 16.215               | 0.08445     | 0.0260   | 0.00910  | NR     |      |
| 4 | A1221-5    | 7463.1406           | 59.567               | 0.31025     | 0.0260   | 0.00910  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 10115.5720          | 23.181              | 0.12073     | 0.0260   | 0.00910  | NR     |      |
| 6  | A1232-8/9   | 4625.3533           | 22.229              | 0.11578     | 0.0260   | 0.00910  | NR     |      |
| 7  | A1242       | 9543.3536           | 14.336              | 0.07467     | 0.0260   | 0.00910  | X      | AD   |
| 8  | A1248       | 7557.2384           | 9.706               | 0.05055     | 0.0260   | 0.00910  | NR     |      |
| 9  | A1248-11/15 | 4568.7084           | 9.486               | 0.04941     | 0.0260   | 0.00910  | NR     |      |
| 10 | A1248-14/15 | 4664.5777           | 12.777              | 0.06655     | 0.0260   | 0.00910  | NR     |      |
| 11 | A1254       | 3533.2259           | 3.447               | 0.01795     | 0.0260   | 0.00910  | X      | AF,J |
| 12 | A1254-17/18 | 2130.2849           | 3.633               | 0.01892     | 0.0260   | 0.00910  | NR     |      |
| 13 | A1254-19/20 | 2082.7540           | 3.378               | 0.01760     | 0.0260   | 0.00910  | NR     |      |
| 14 | A1254-20    | 2598.5873           | 3.358               | 0.01749     | 0.0260   | 0.00910  | NR     |      |
| 15 | A1260       | 934.6386            | 0.651               | 0.00339     | 0.0260   | 0.00910  | NR     |      |
| 16 | A1260-23/24 | 934.6386            | 1.383               | 0.00720     | 0.0260   | 0.00910  | NR     |      |
| 17 | A1262       | 934.6386            |                     |             |          |          | NR     |      |



SampleName AS11838; Sample\_ID FRS-WAFA-T150604085226

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060109

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060109

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1232 50 PPB              | CS320604A   | GC28F-1633-14        | 06/04/2015 15:15:47        | 2.38                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150604B05   | GC28F-1633-15        | 06/04/2015 15:29:47        | 2.37                       | 8.82 |
| 58   | FRS-WAFA-T150604085226 MS | AS11838M    | GC28F-1633-19        | 06/04/2015 17:21:27        | 2.37                       | 8.82 |
| 59   | FRS-LOC5-T150604085101    | AS11837     | GC28F-1633-20        | 06/04/2015 17:35:19        | 2.37                       | 8.82 |
| 60   | FRS-WAFA-T150604085226    | AS11838     | GC28F-1633-21        | 06/04/2015 17:49:10        | 2.37                       | 8.82 |
| 61   | A1242 50 PPB              | CS420604A   | GC28F-1633-22        | 06/04/2015 18:03:19        | 2.37                       | 8.82 |
| 62   | HEXANE BLANK-SURR         | 150604B08   | GC28F-1633-23        | 06/04/2015 18:17:21        | 2.37                       | 8.82 |
| 63   | PBLK-07(METHOD BLANK)     | AS11838BRR1 | GC28F-1633-28        | 06/04/2015 20:03:30        | 2.37                       | 8.82 |
| 64   | LCS-07(LAB CONTROL SPIKE) | AS11838LRR1 | GC28F-1633-29        | 06/04/2015 20:17:30        | 2.37                       | 8.82 |
| 65   | A1254 50 PPB              | CS540604A   | GC28F-1633-30        | 06/04/2015 20:31:19        | 2.37                       | 8.82 |
| 66   | HEXANE BLANK-SURR         | 150604B11   | GC28F-1633-31        | 06/04/2015 20:45:18        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060109

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/8/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060109

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

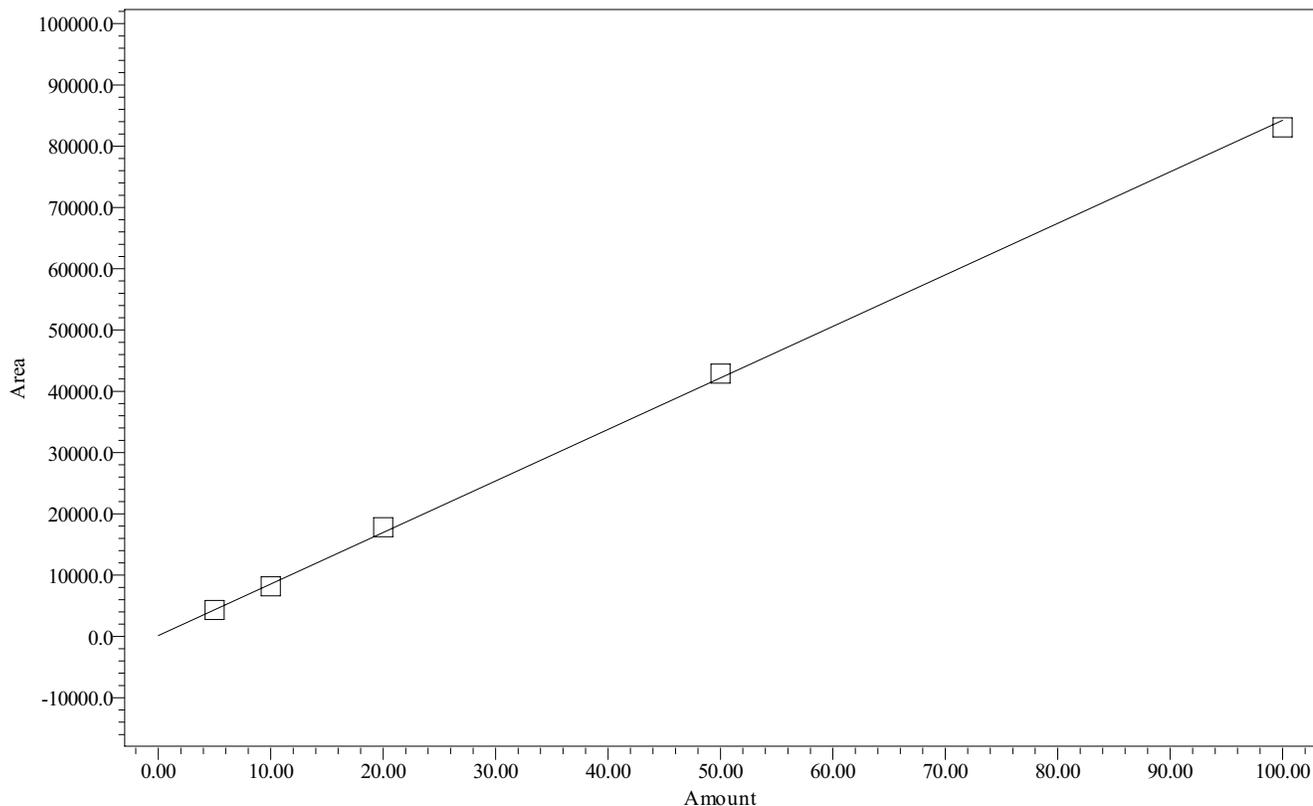
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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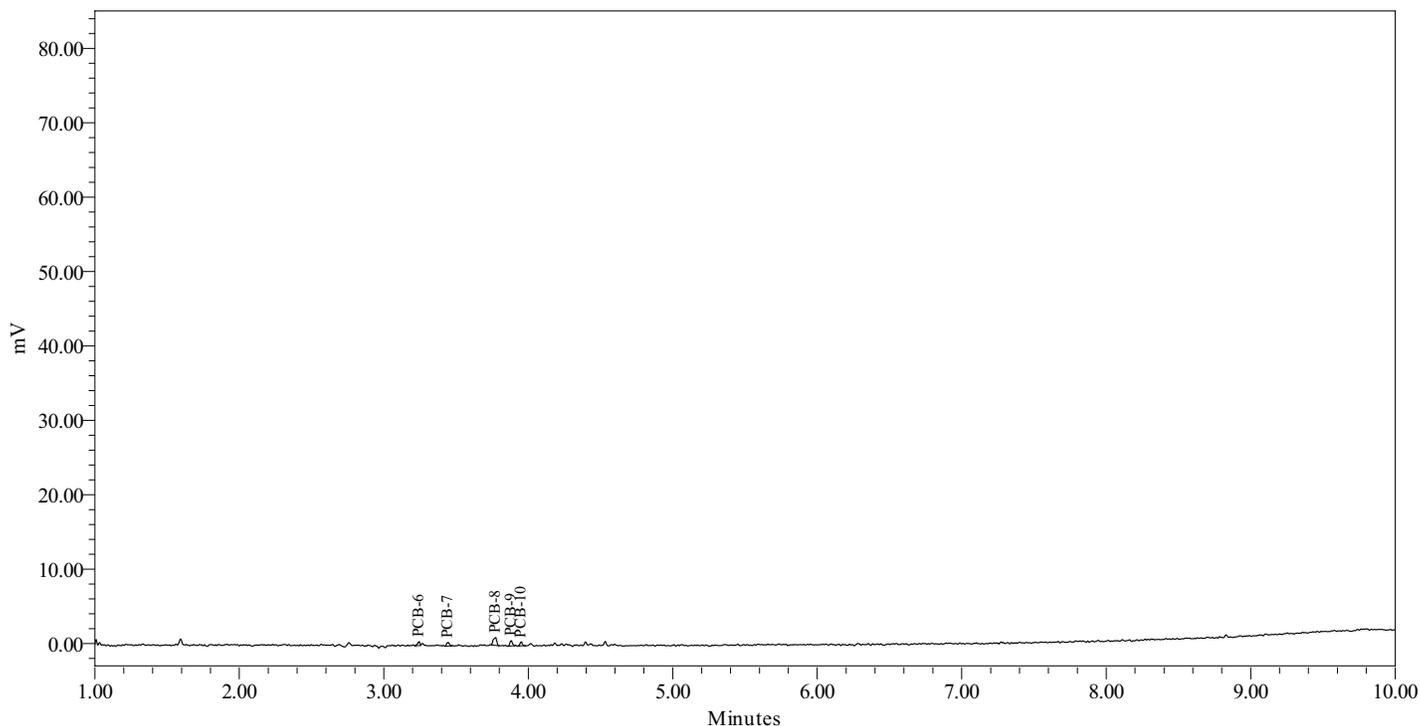
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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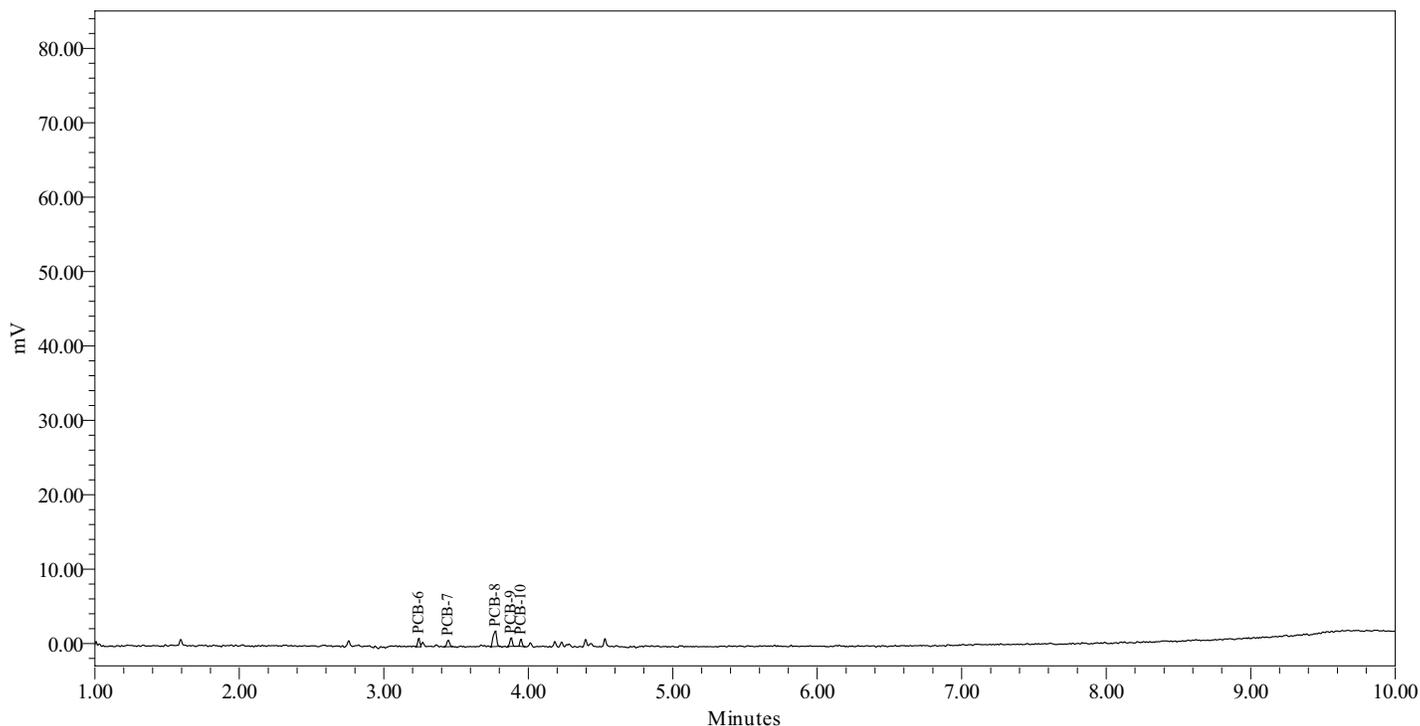
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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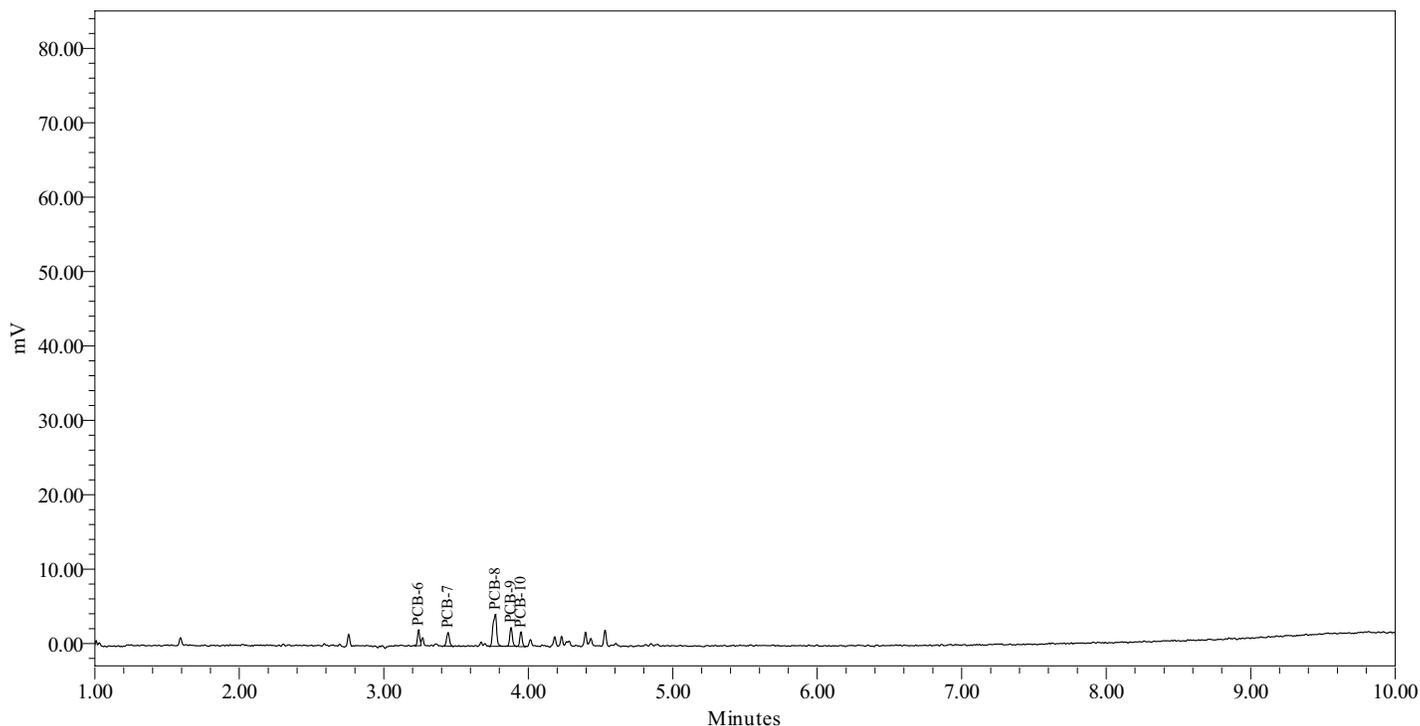
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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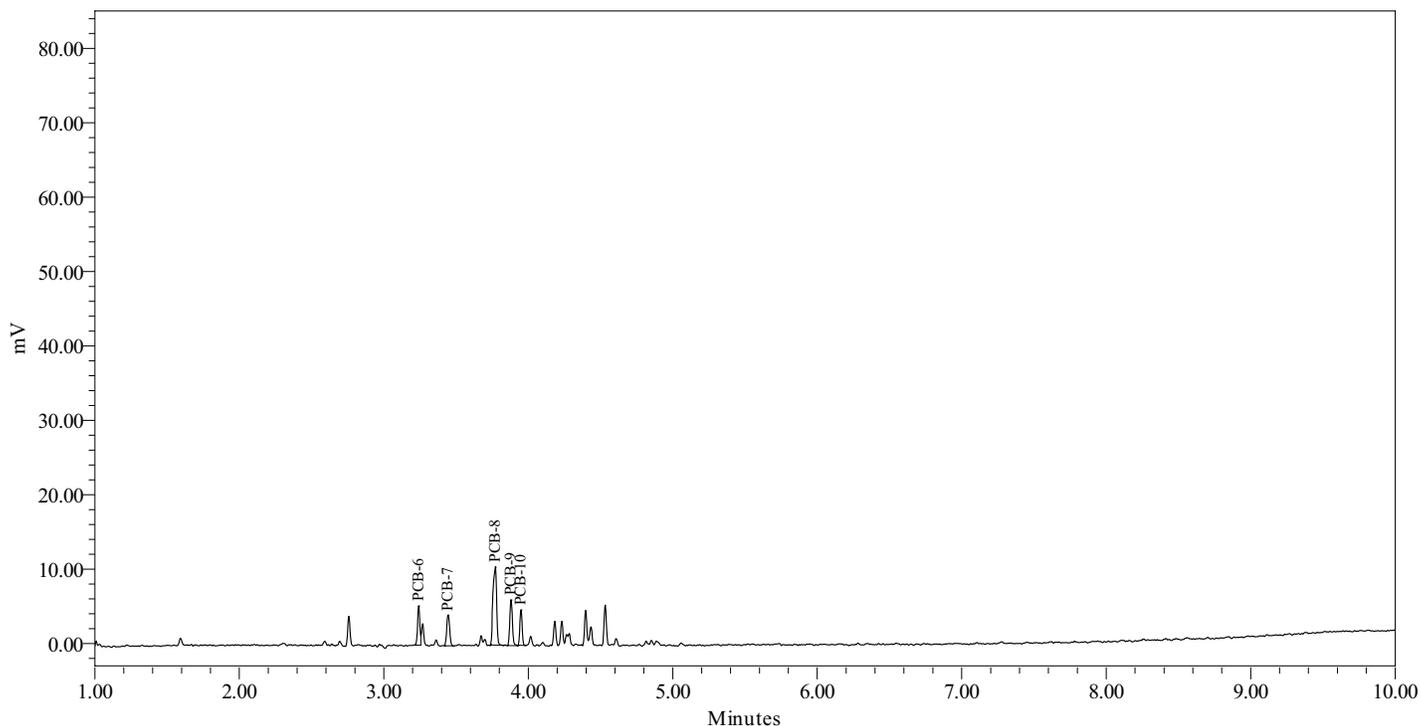
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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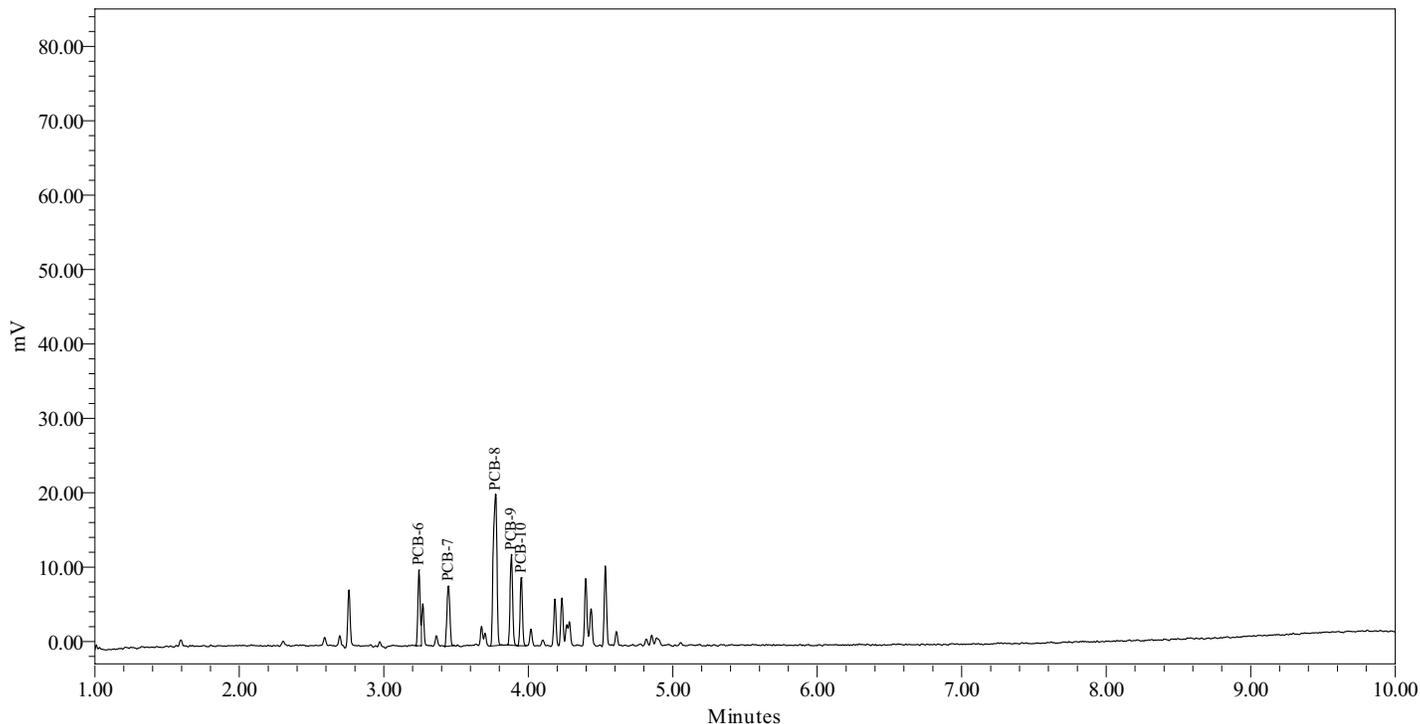
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 11381         |
| 2 PCB-7   | 3.447          | bb               | 11368         |
| 3 PCB-8   | 3.773          | bb               | 35910         |
| 4 PCB-9   | 3.883          | bB               | 14405         |
| 5 PCB-10  | 3.951          | Bb               | 10008         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 83072               | 100.000              |
| 2 A1232     | 71691               |                      |
| 3 A1232-8/9 | 21376               |                      |
| 4 A1242     | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

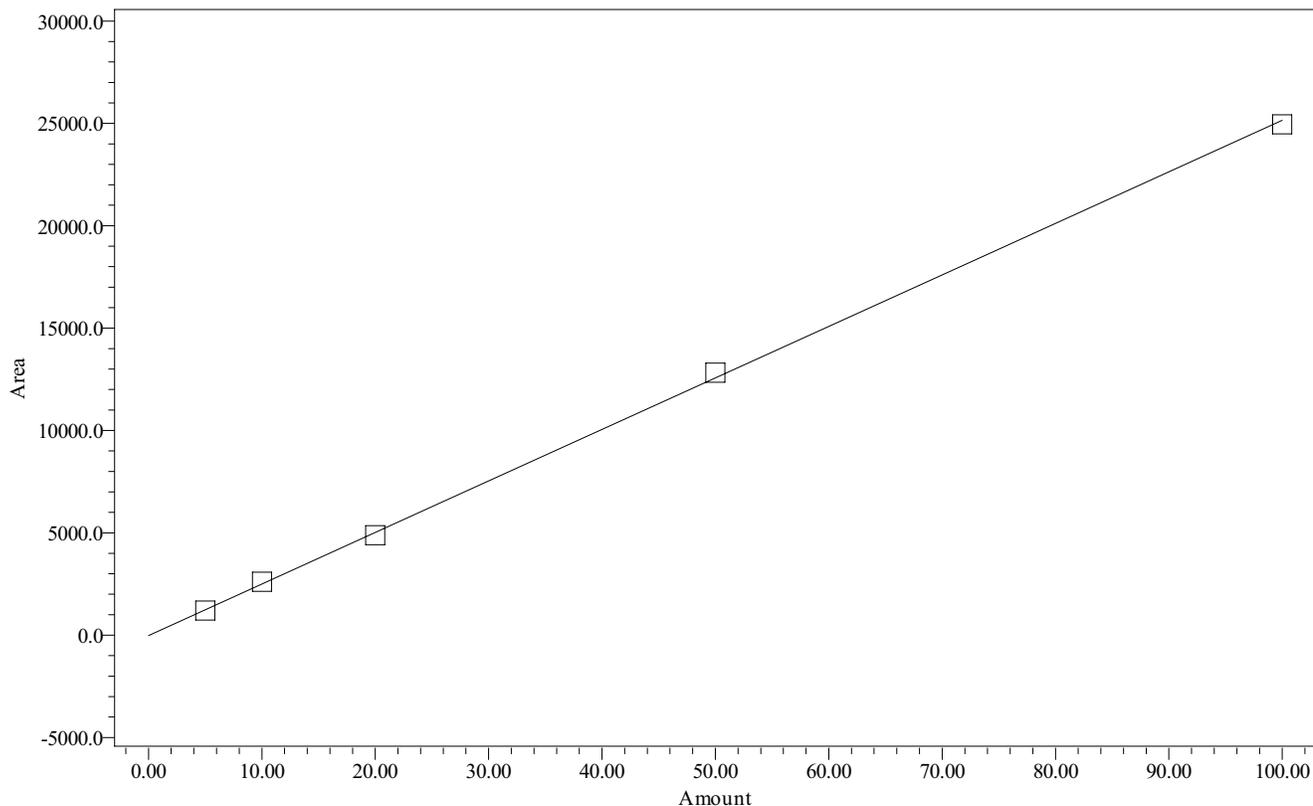
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

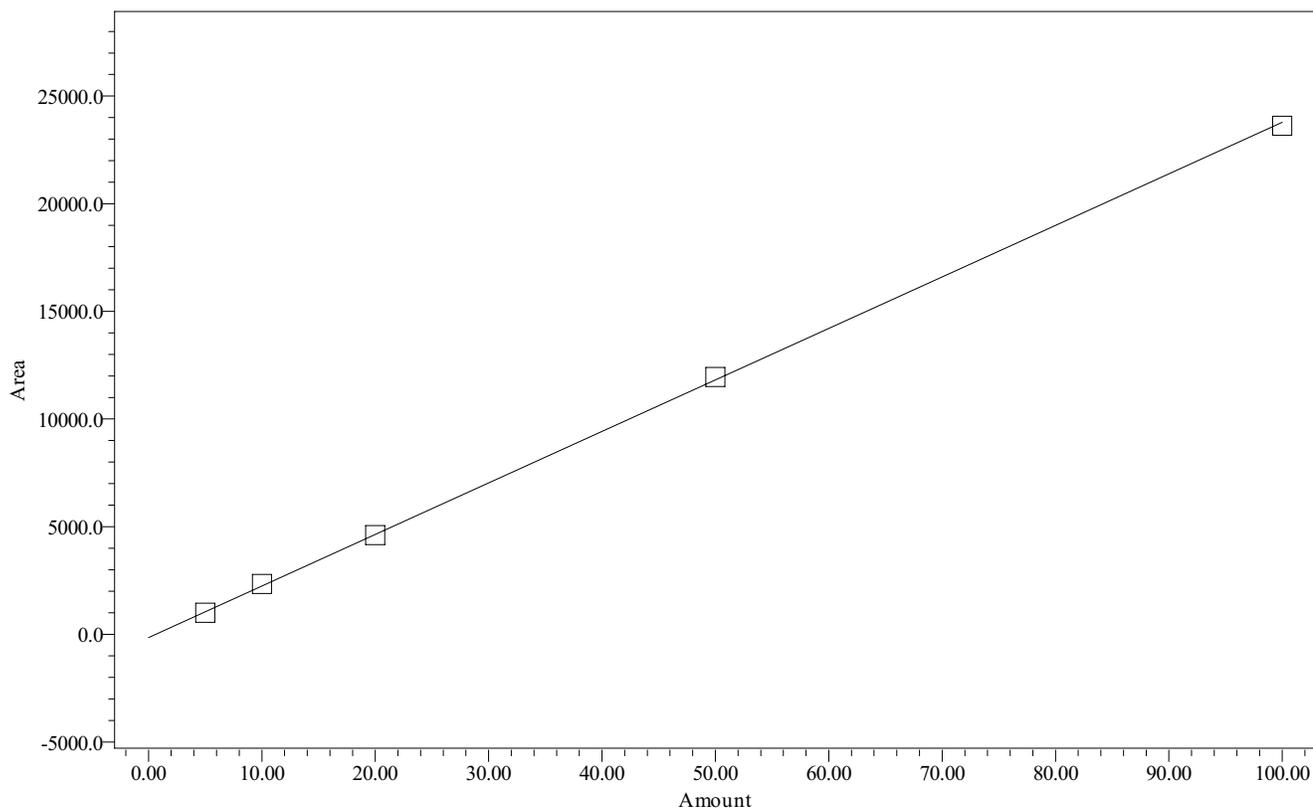
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



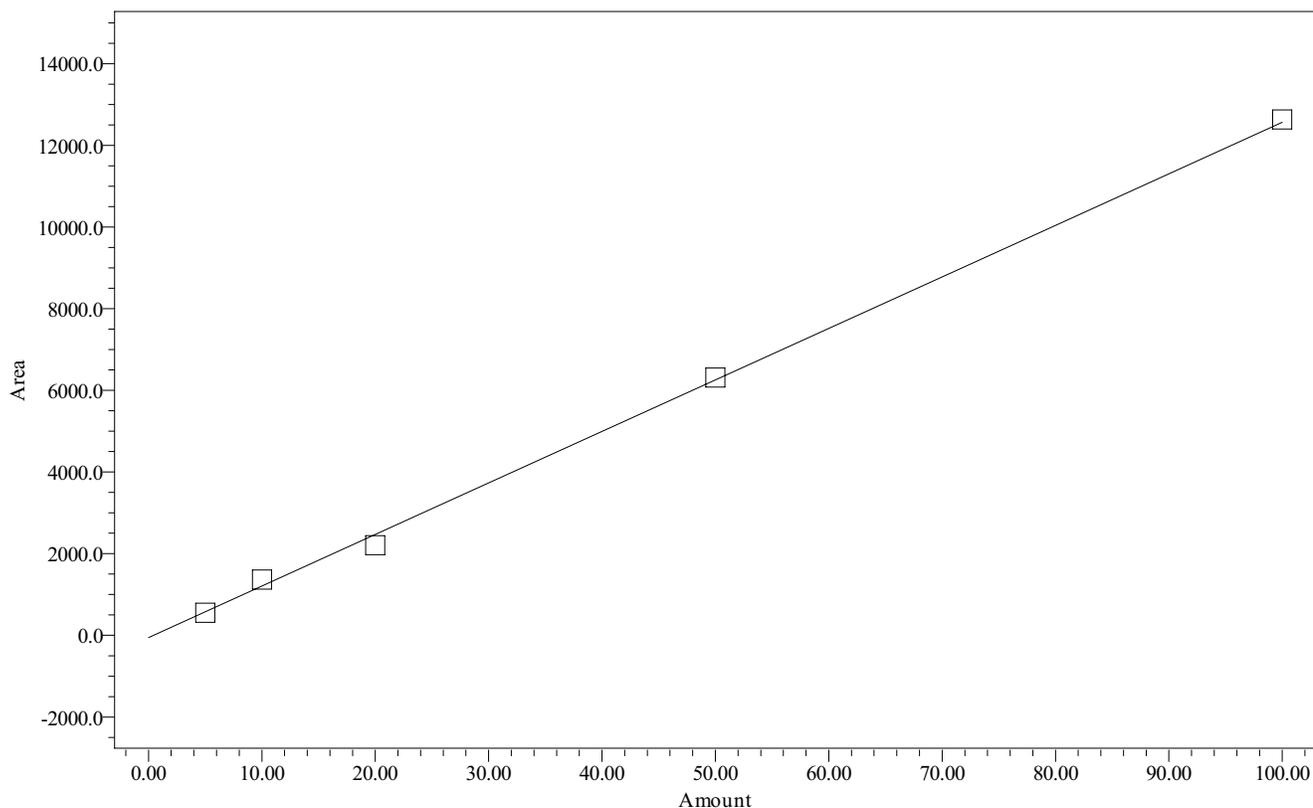
Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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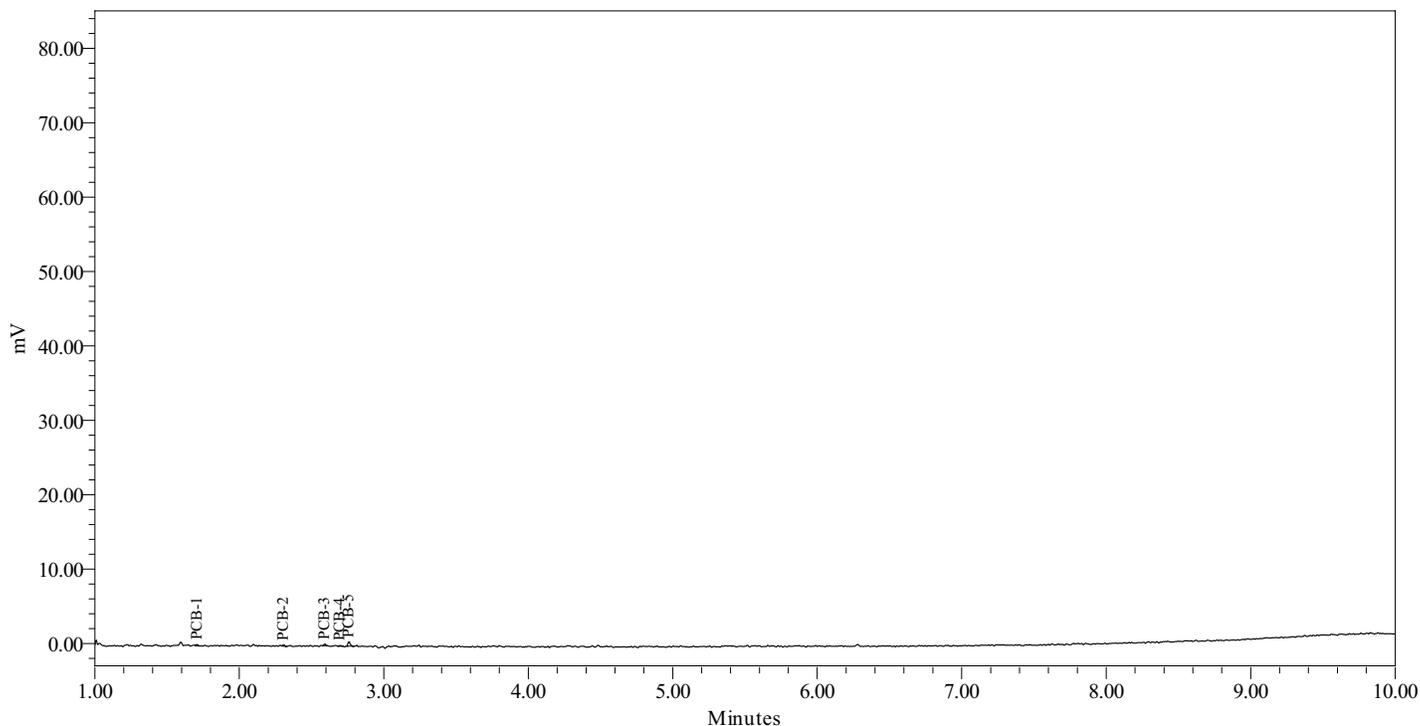
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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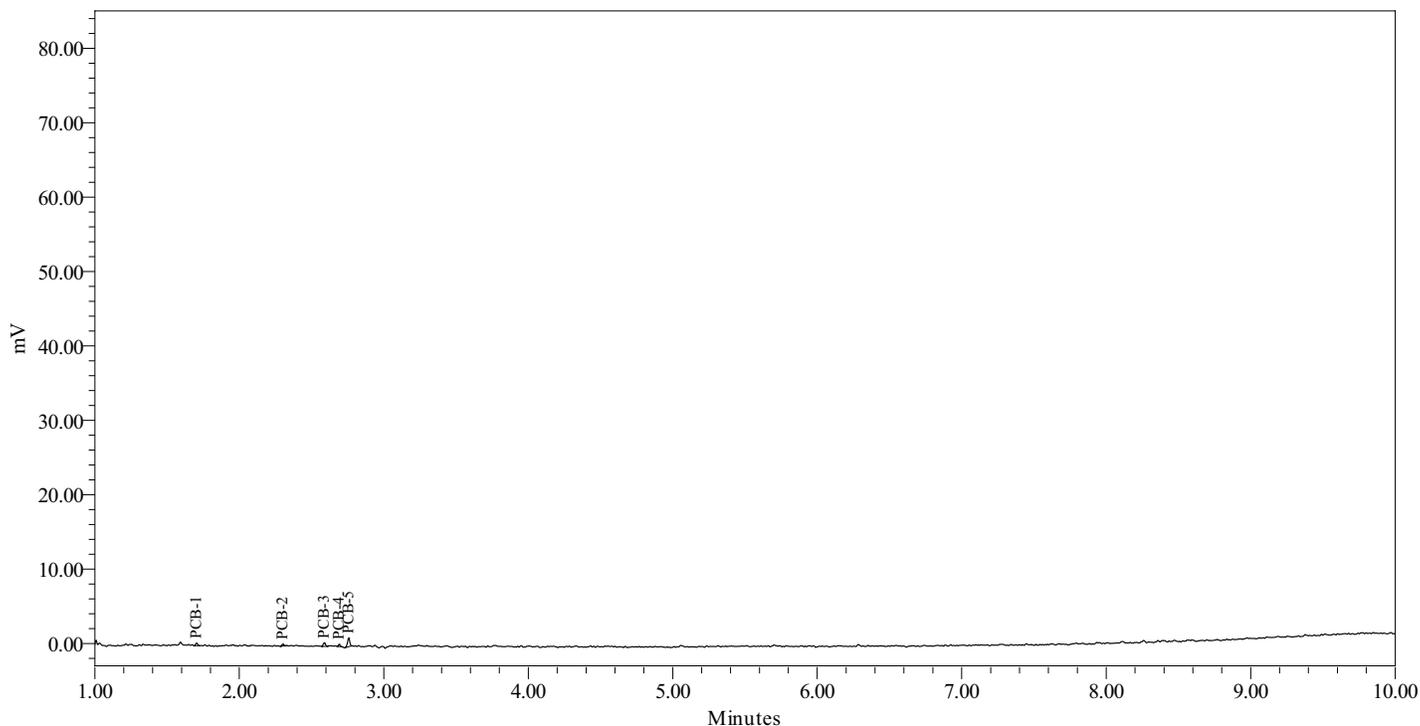
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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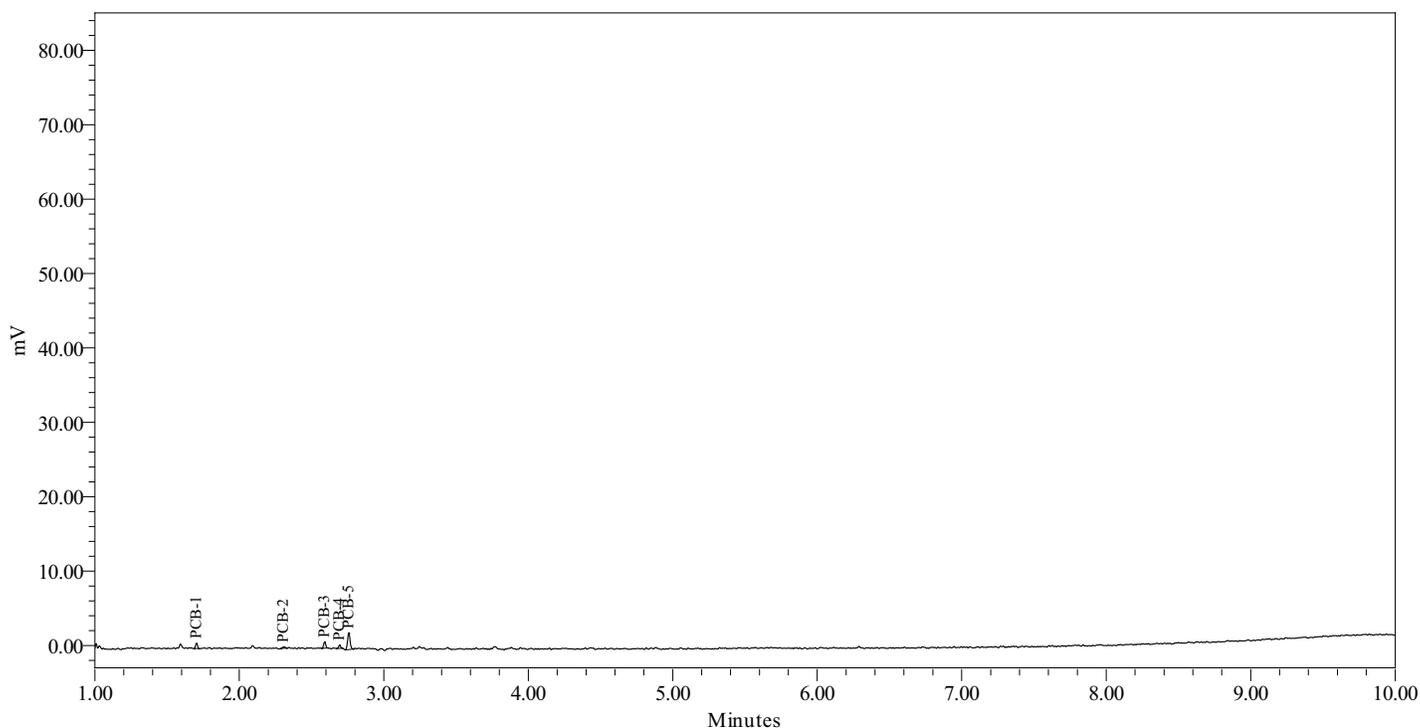
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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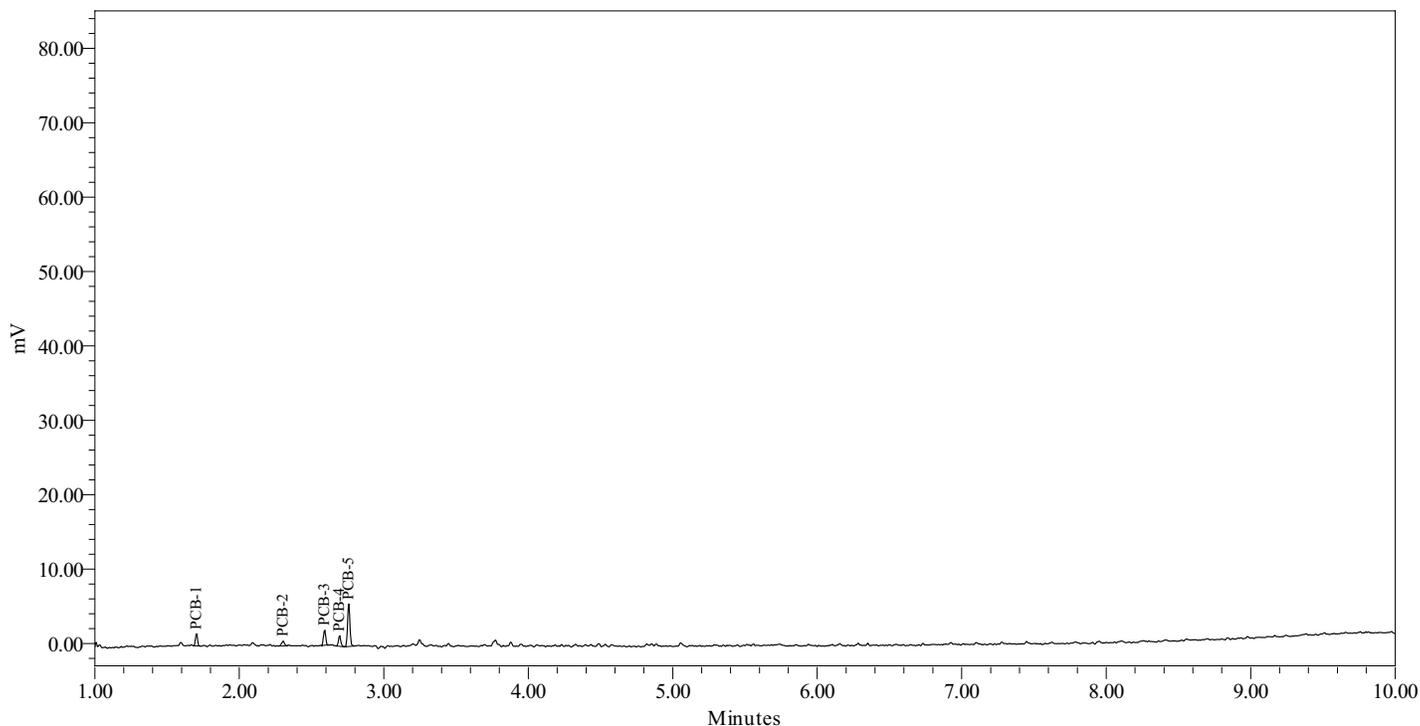
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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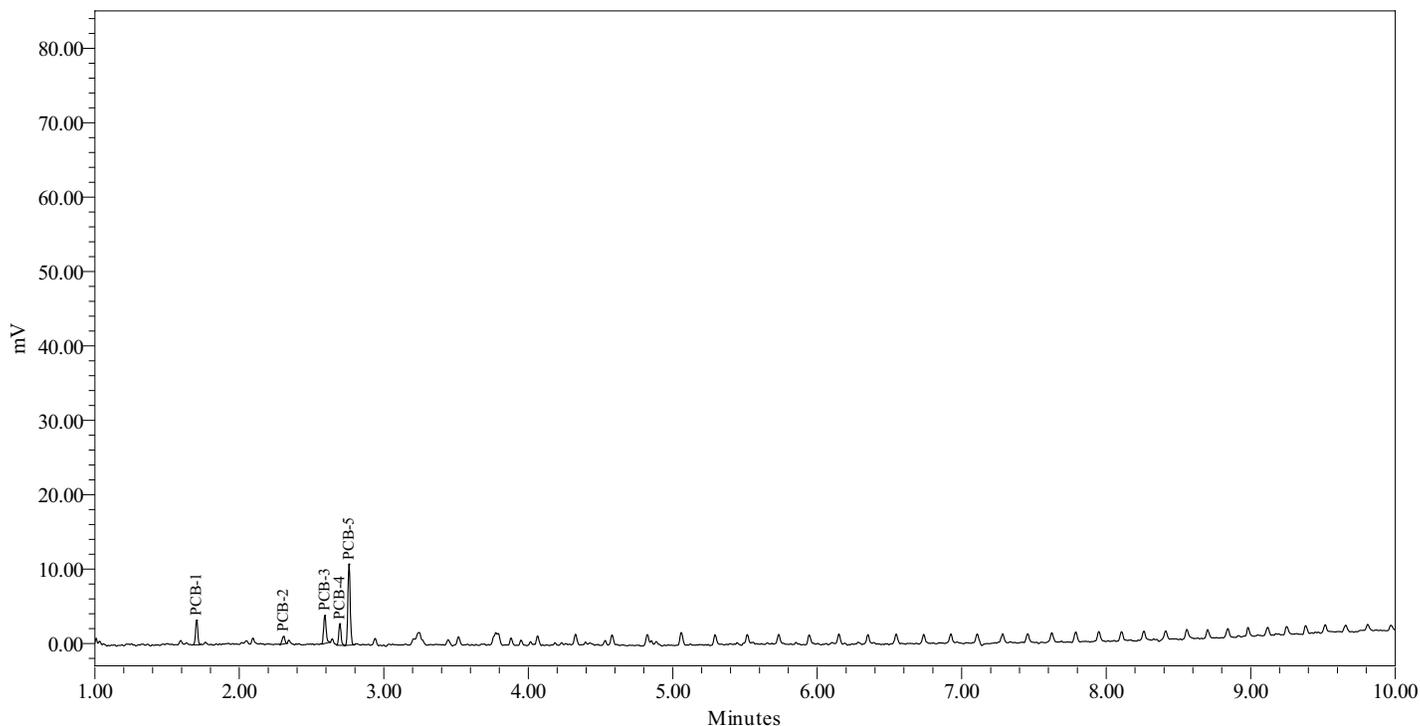
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

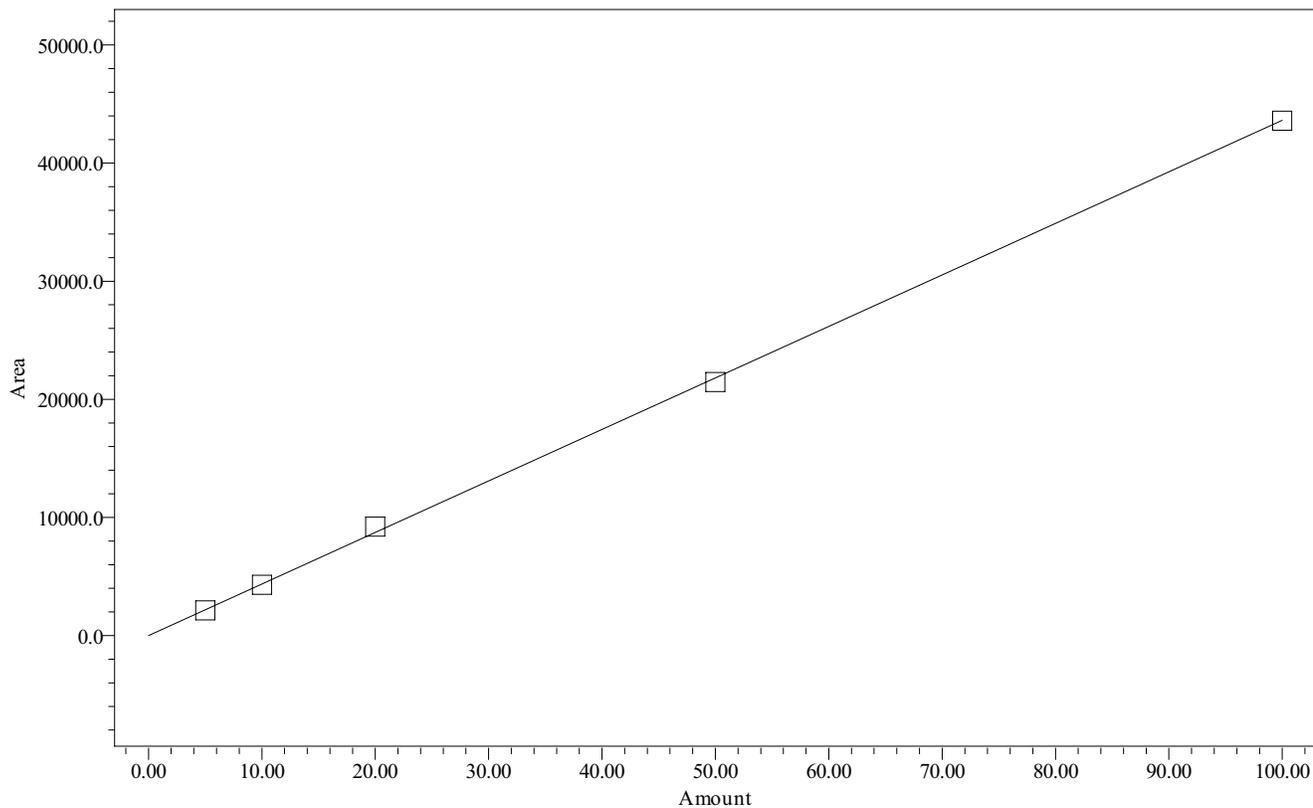
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

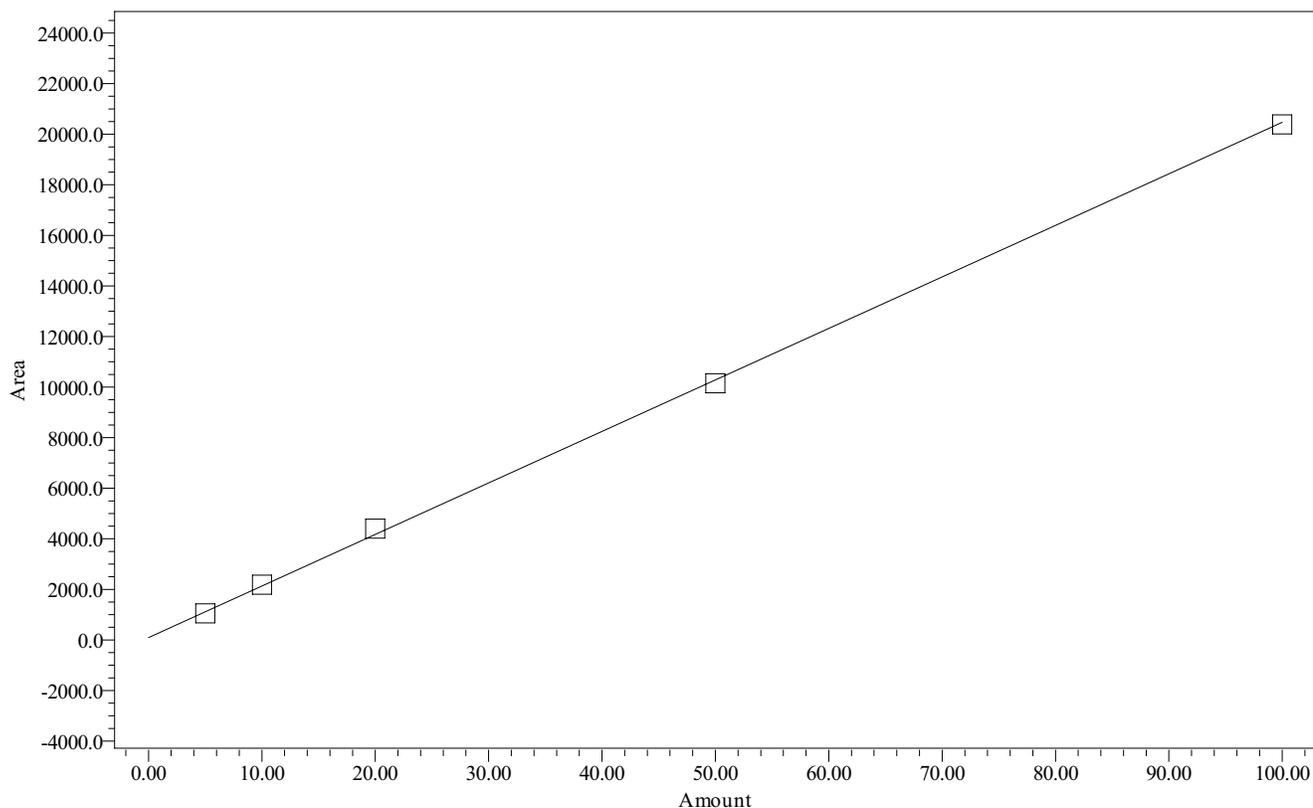
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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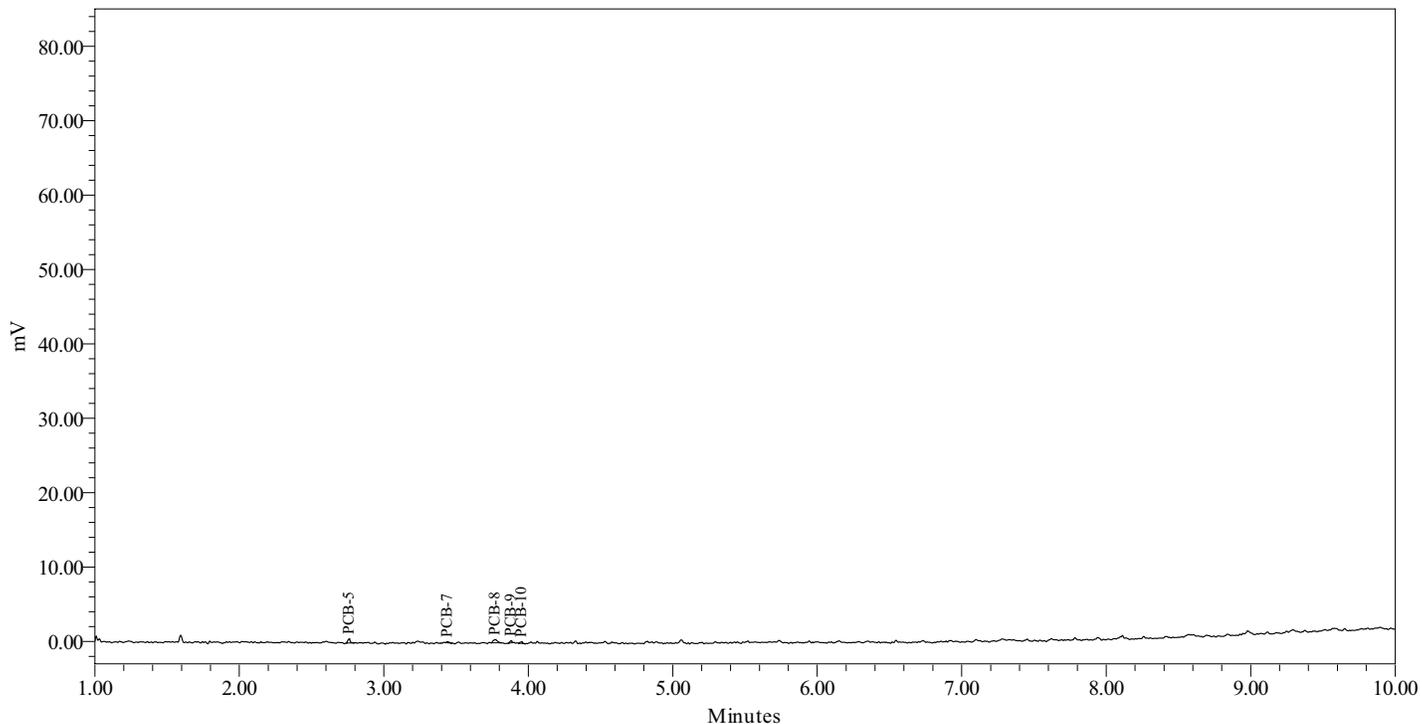
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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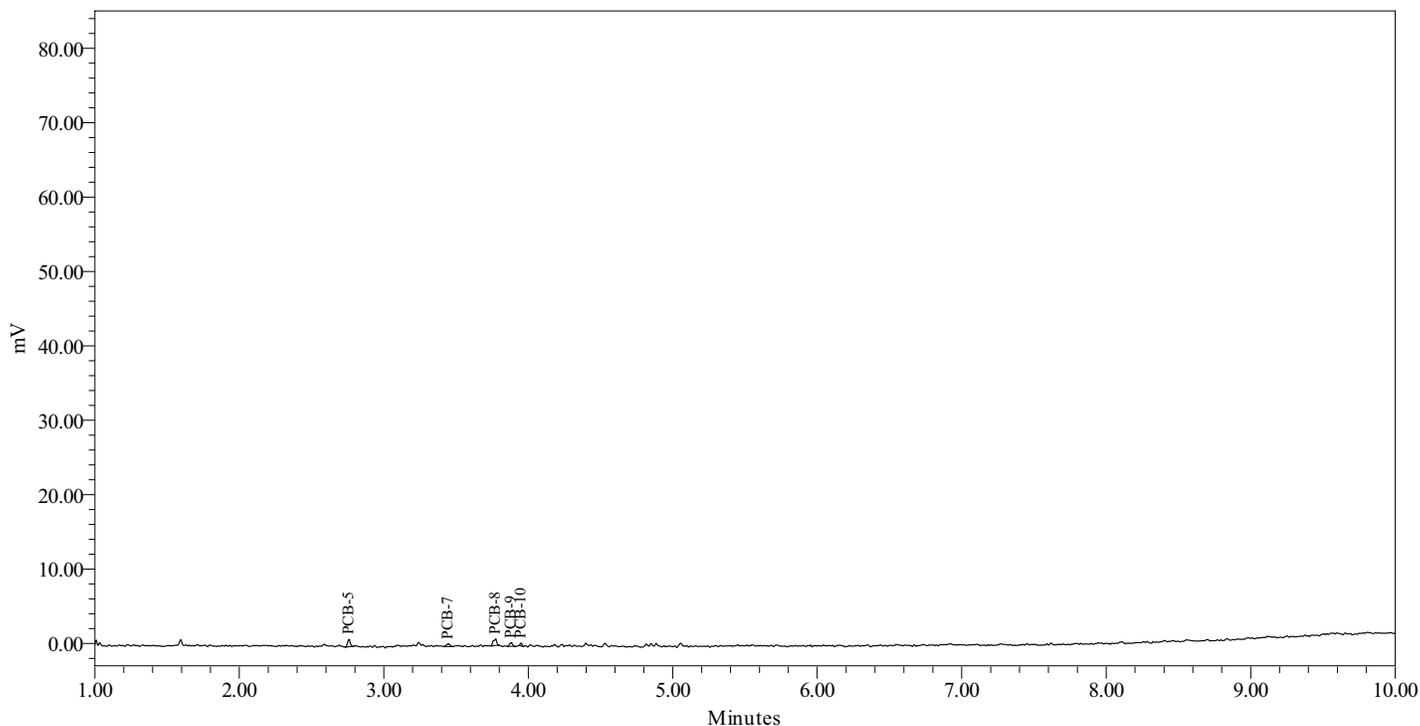
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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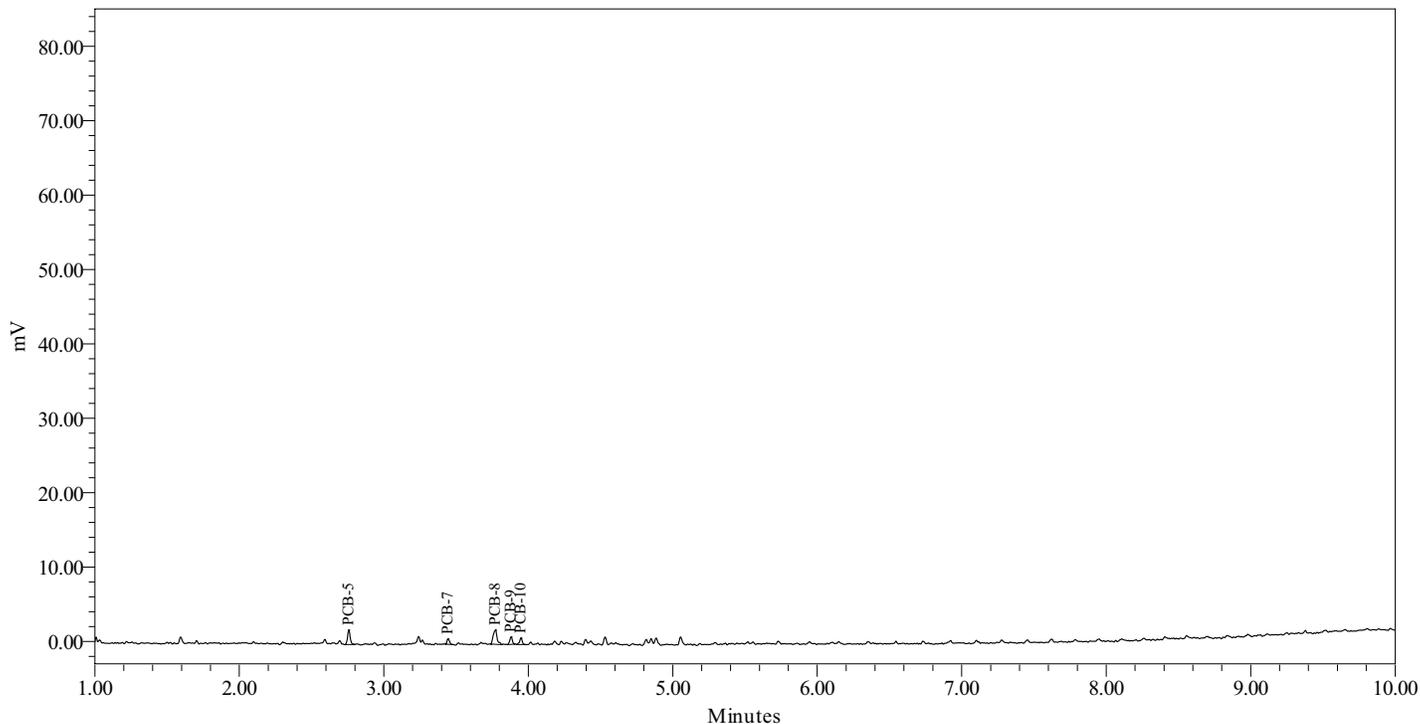
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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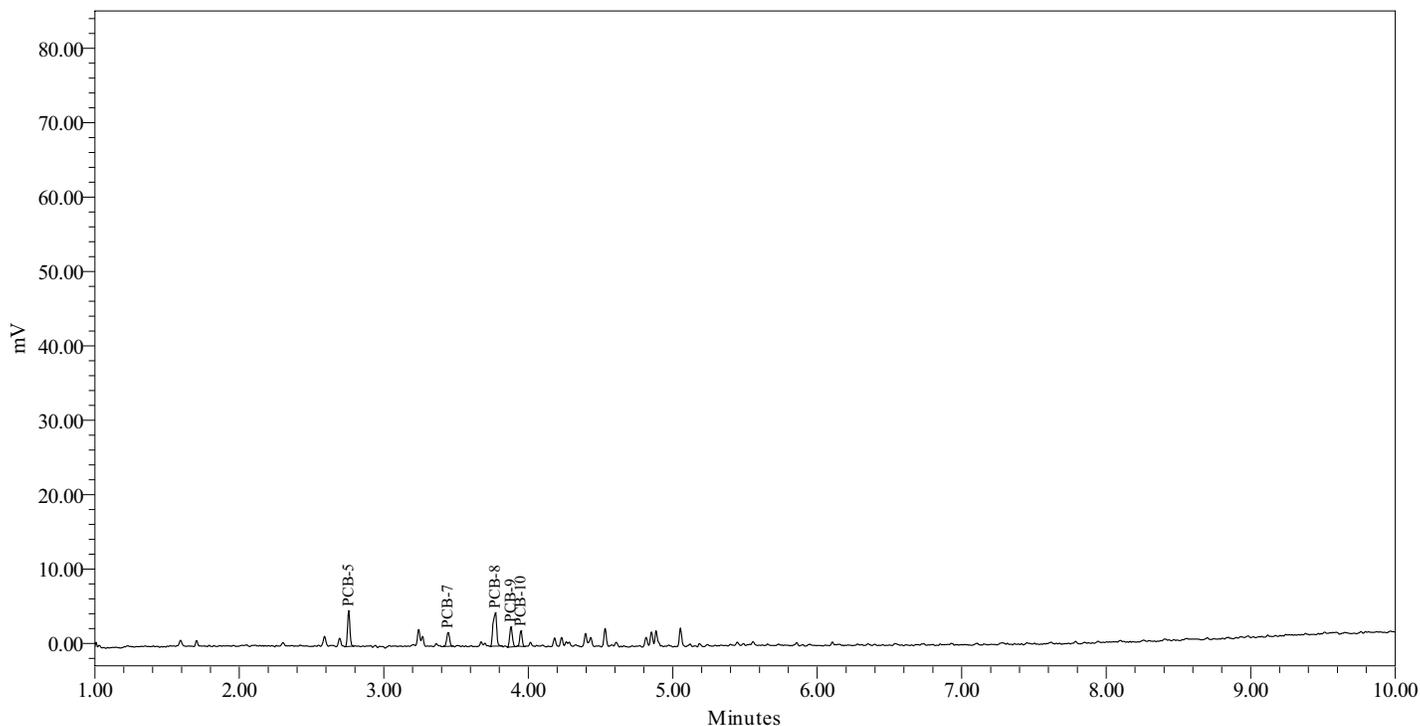
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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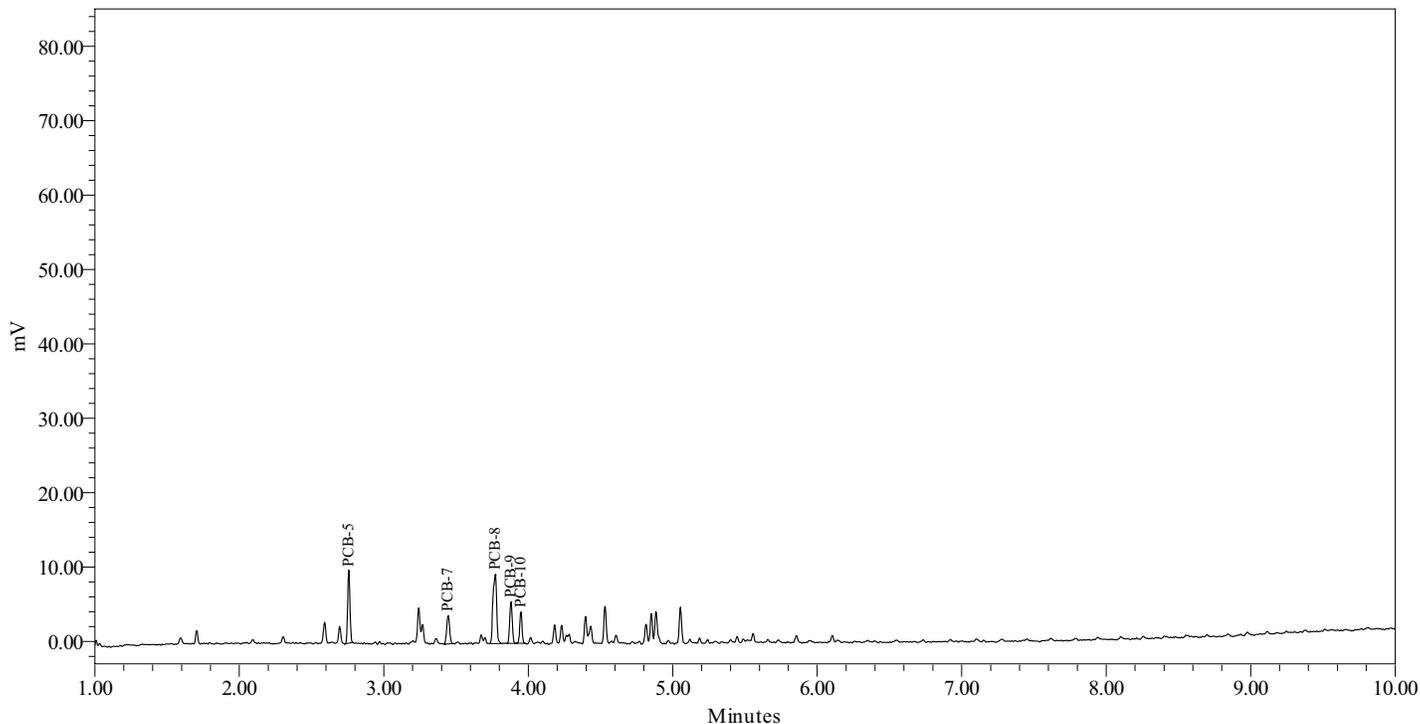
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table  
Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

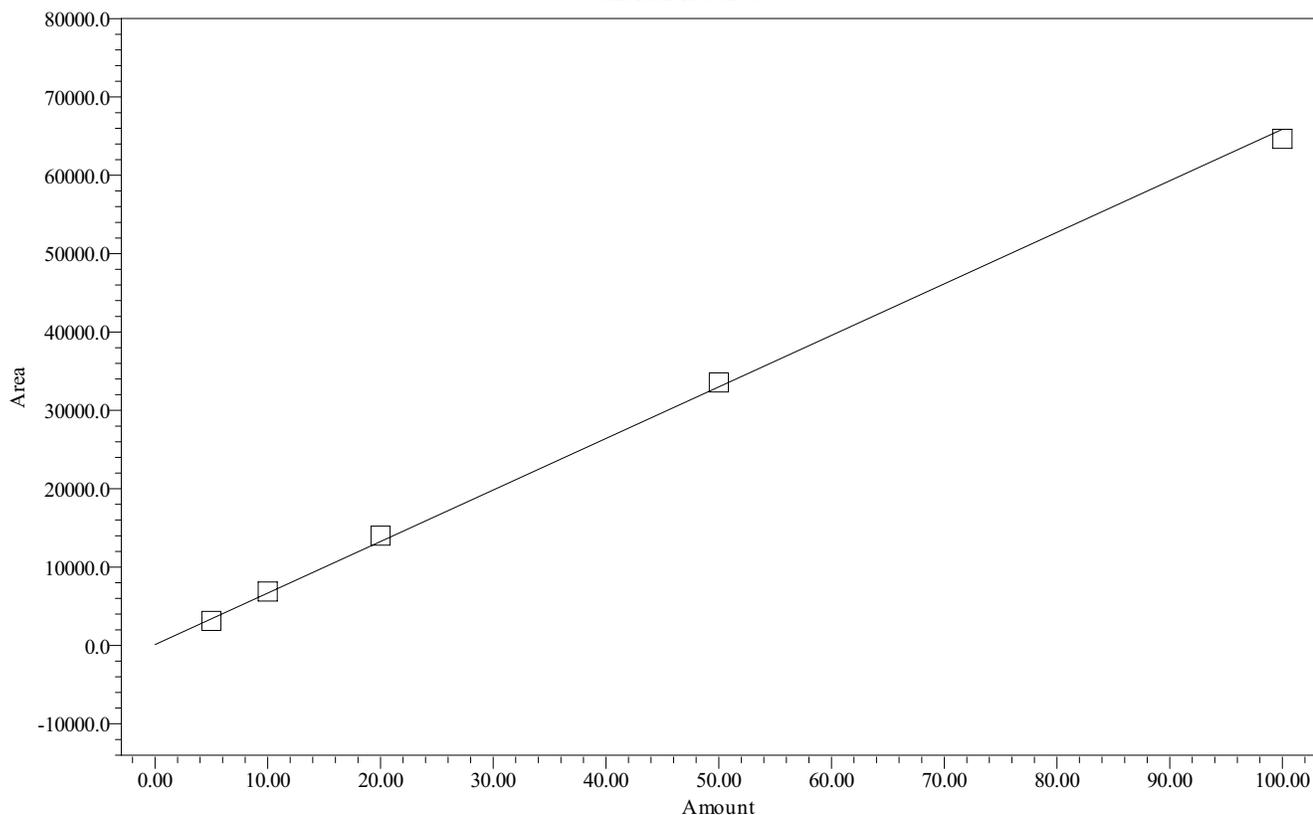
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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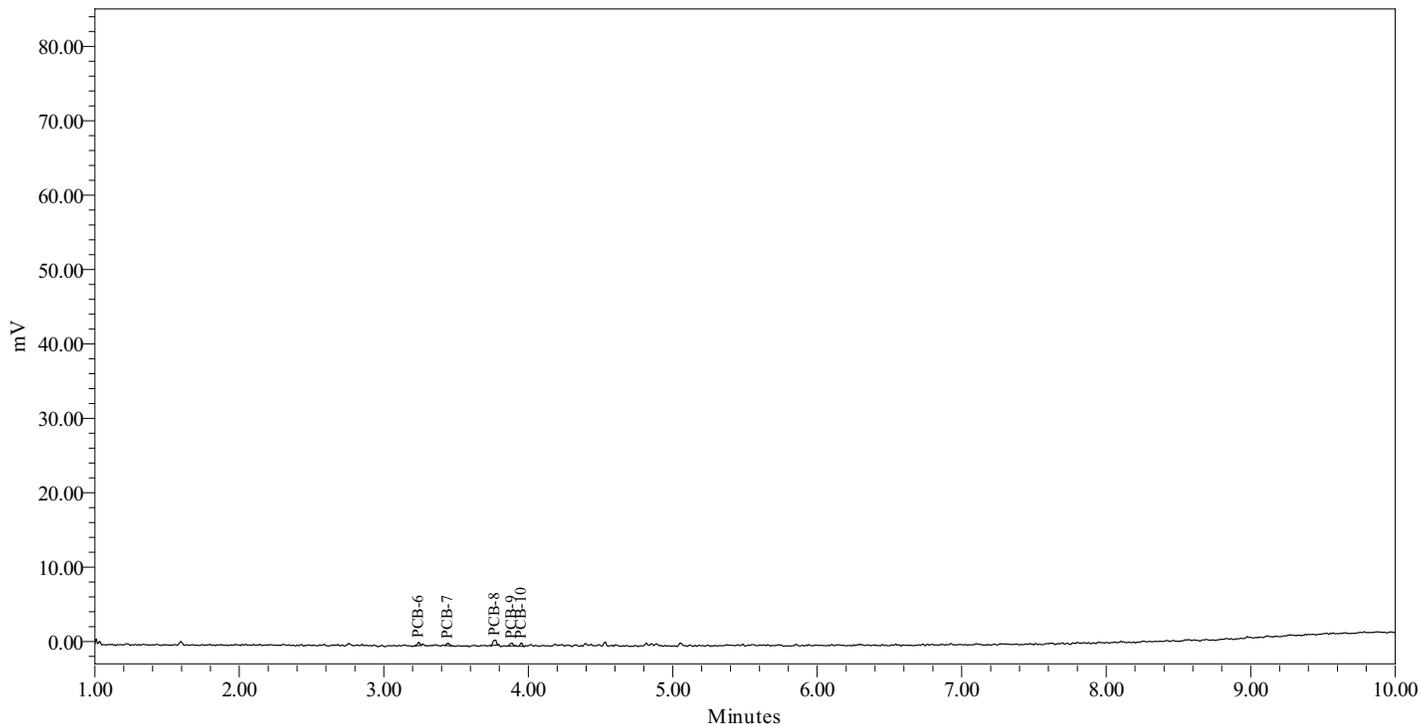
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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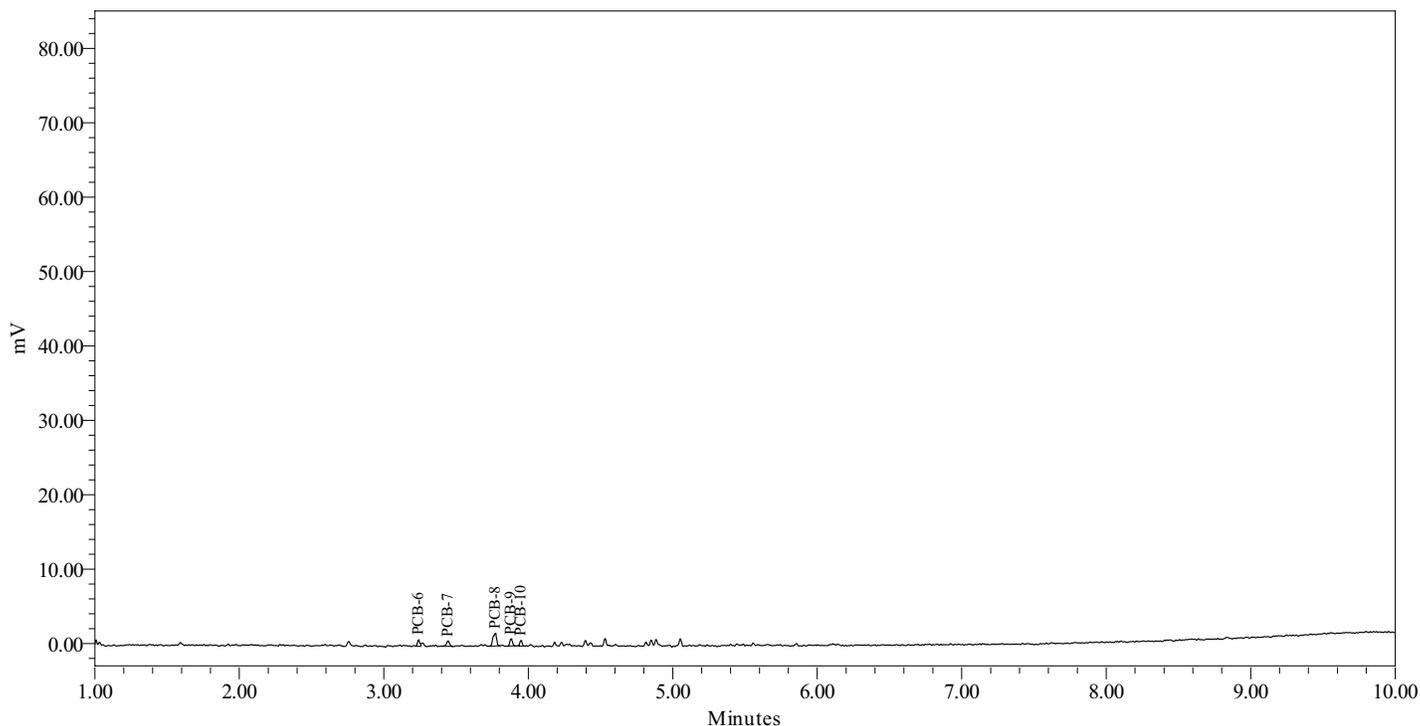
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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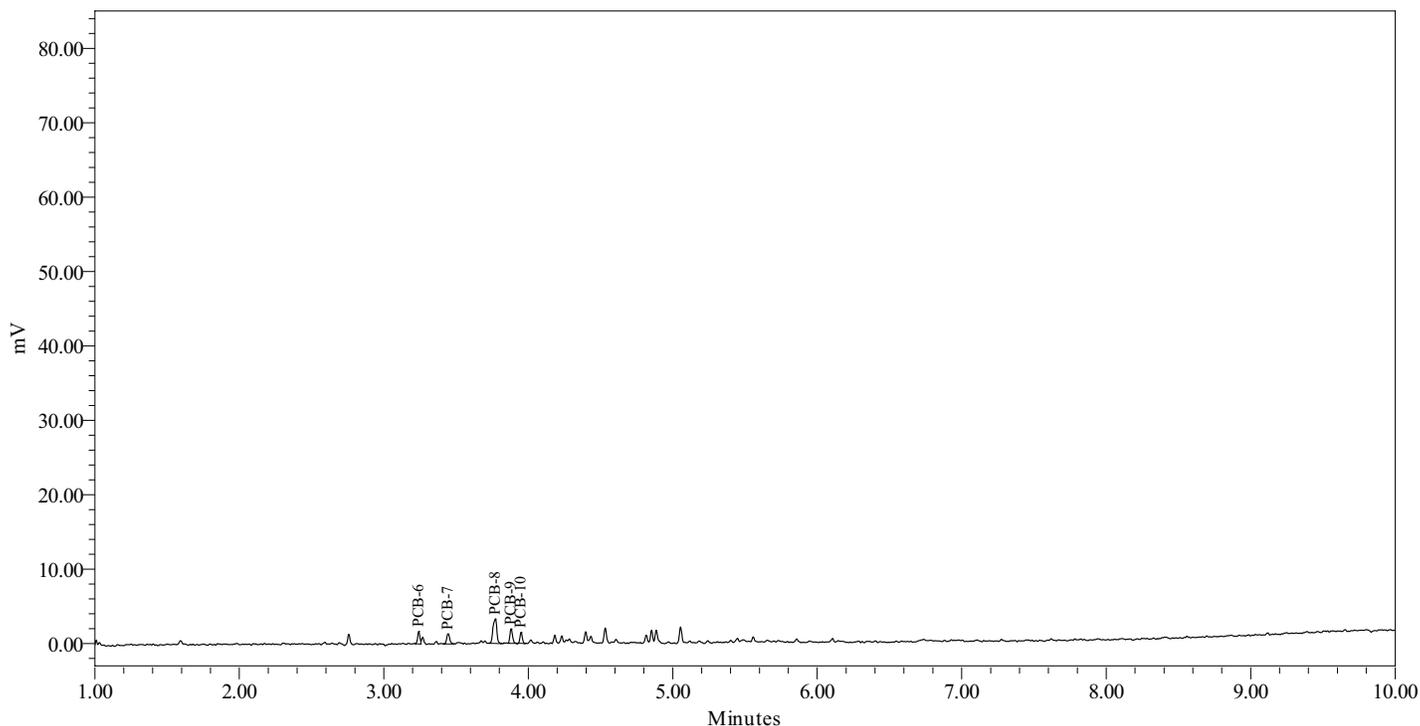
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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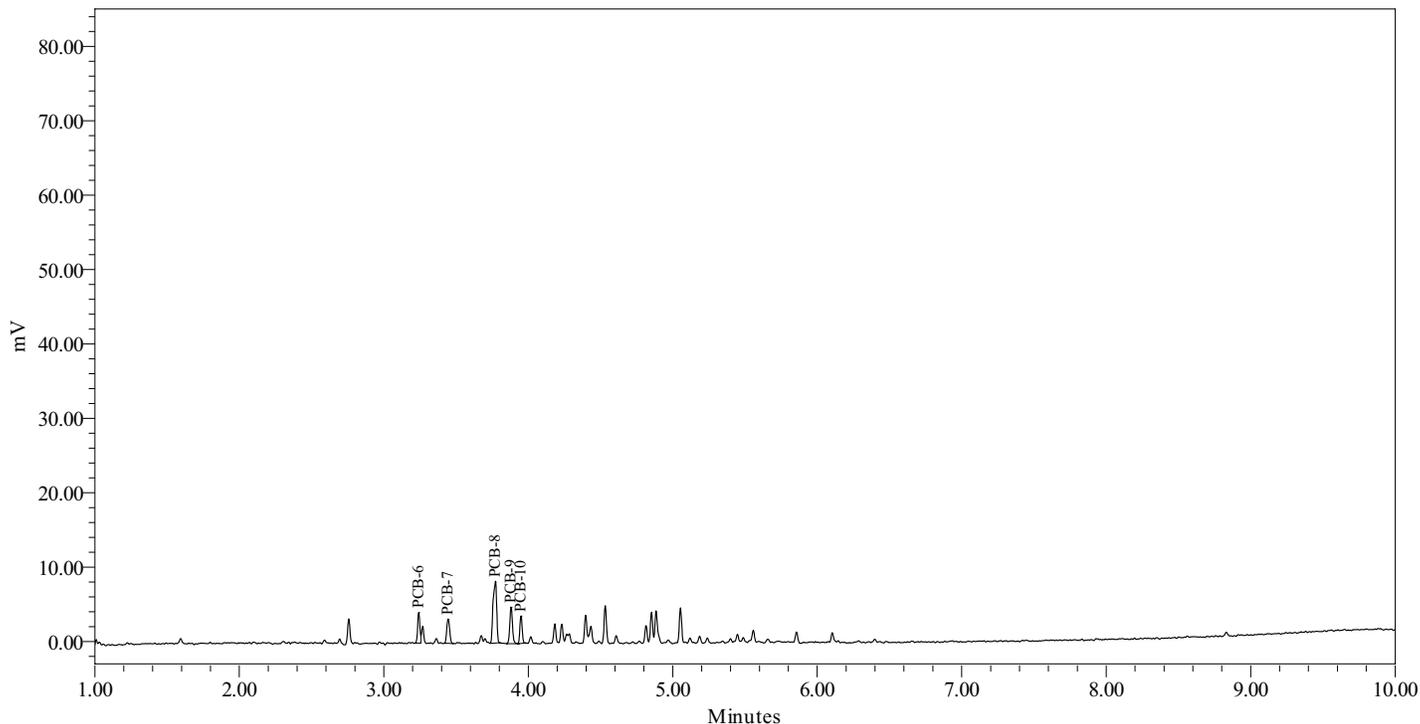
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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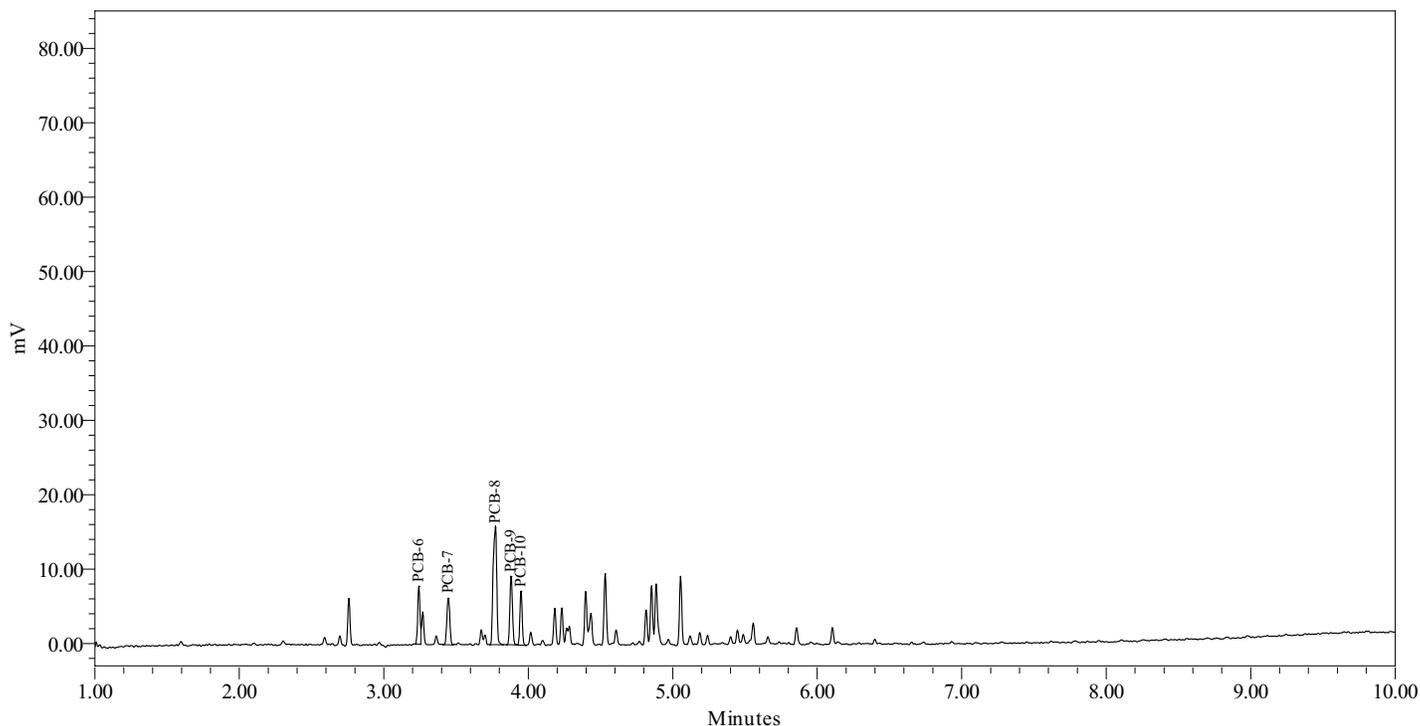
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

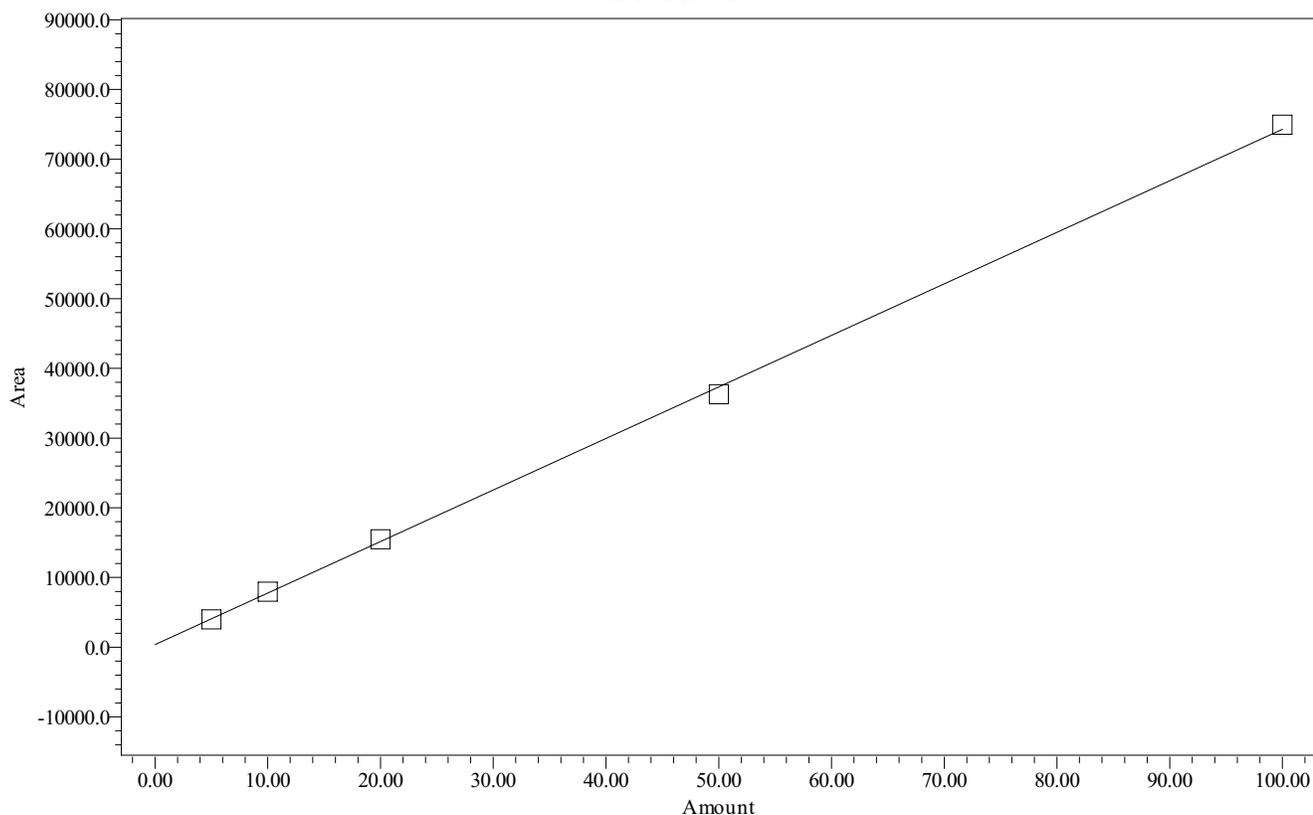
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

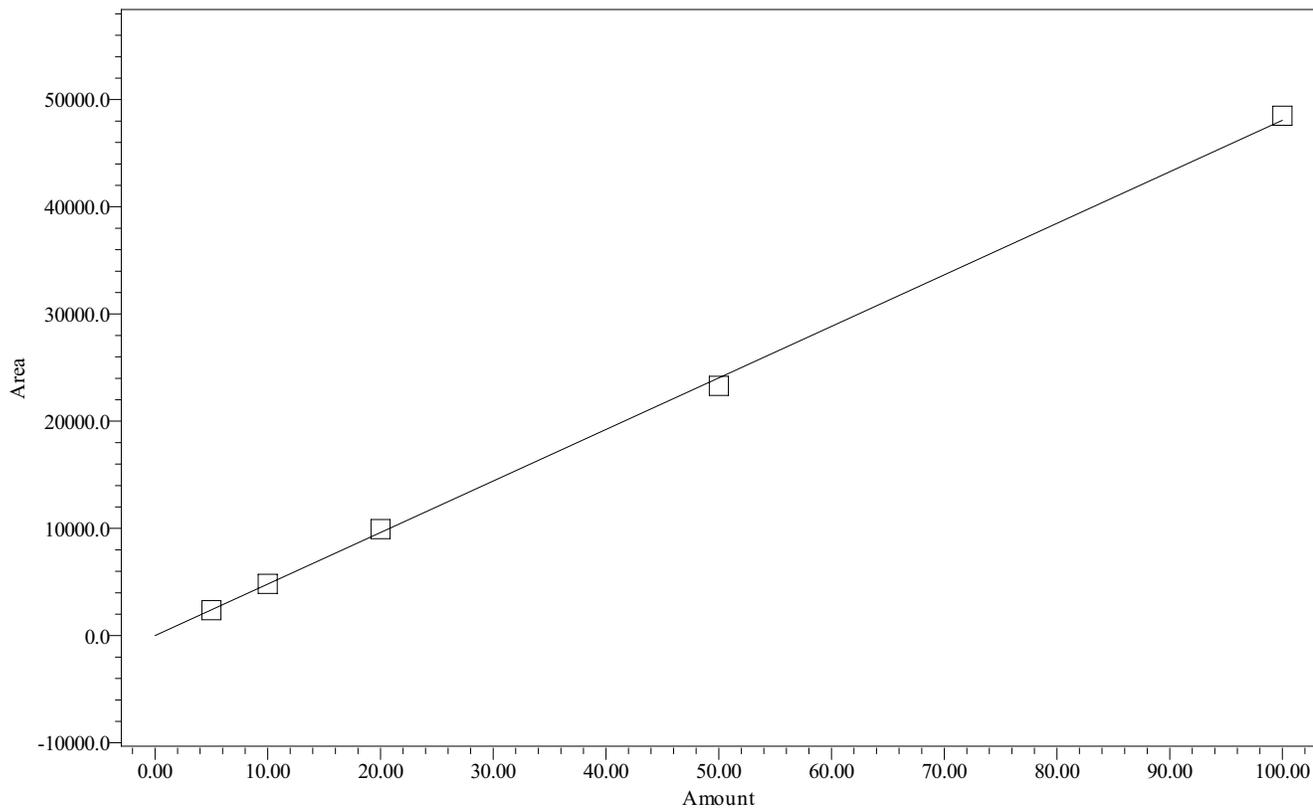
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

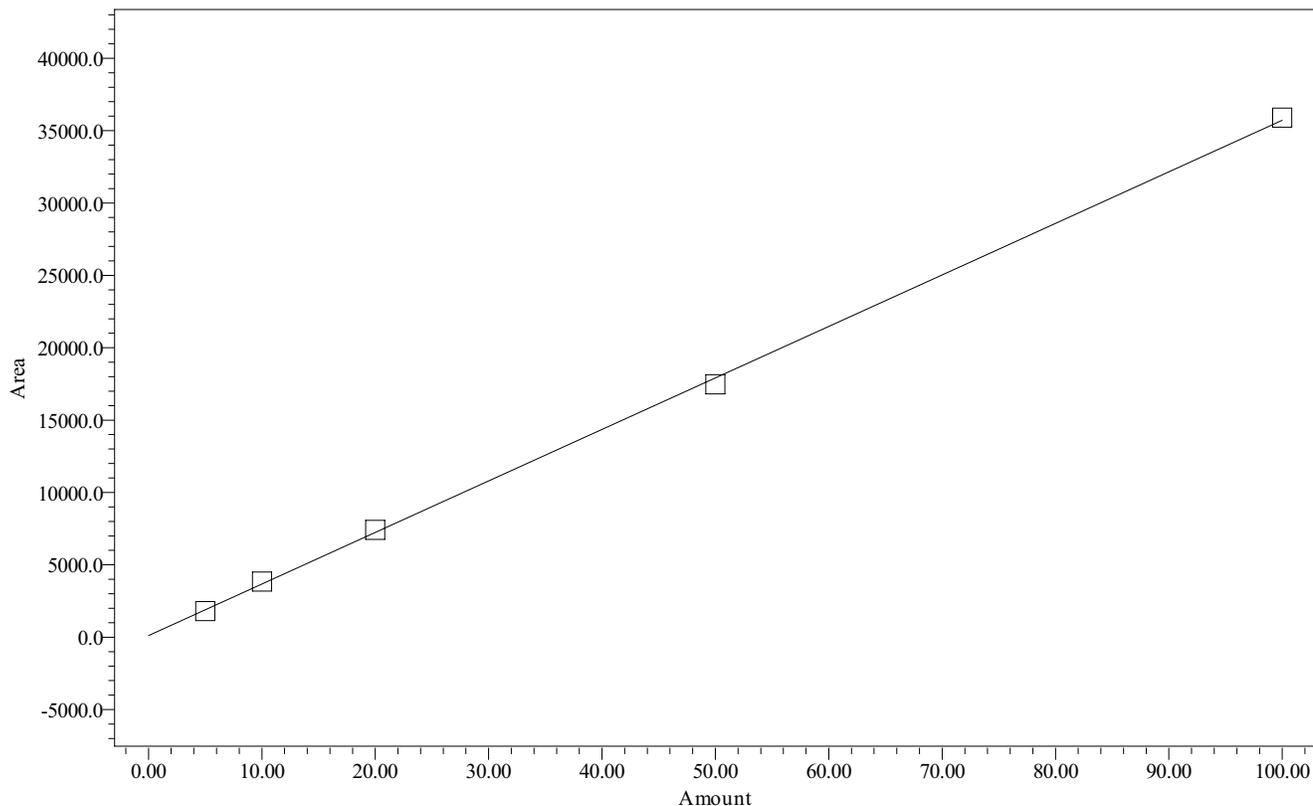
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|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00          | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00         | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00         | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00         | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00        | 35901    | 100.5       | 0.529       | No     | No     |

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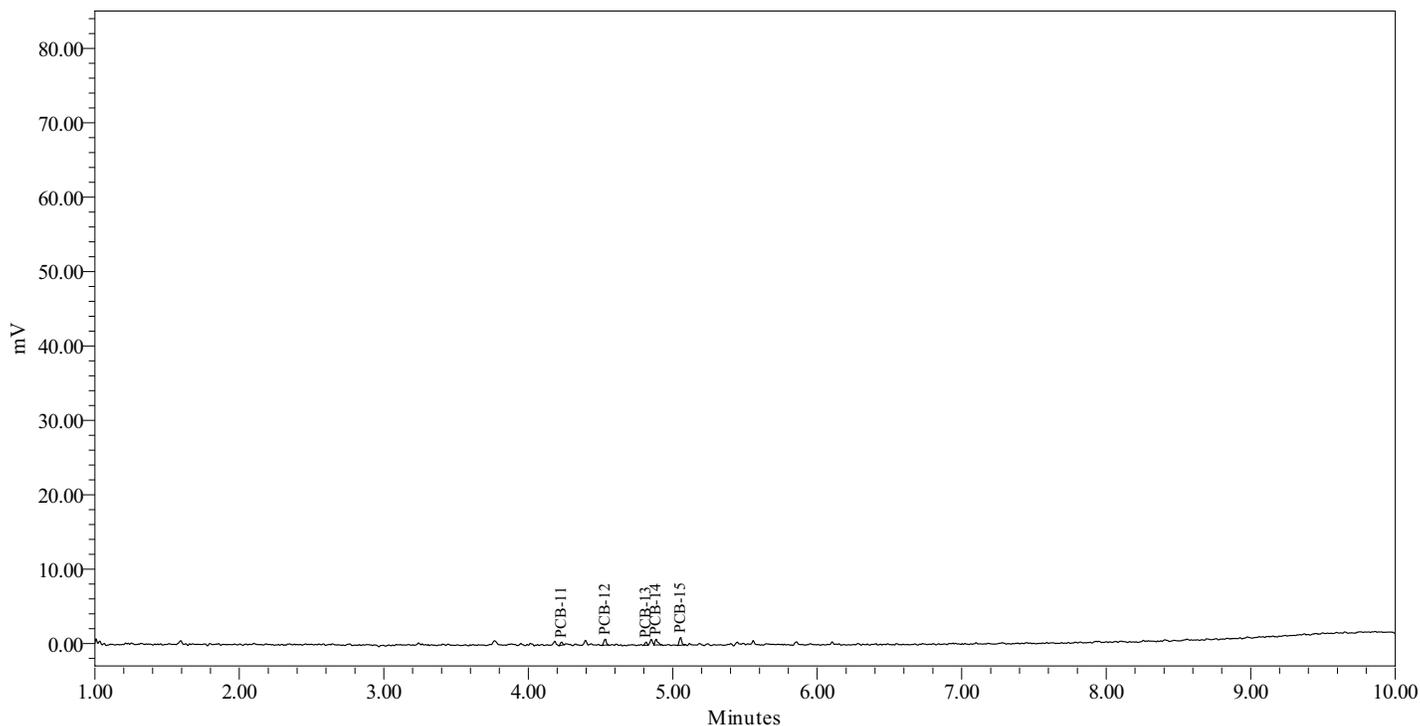
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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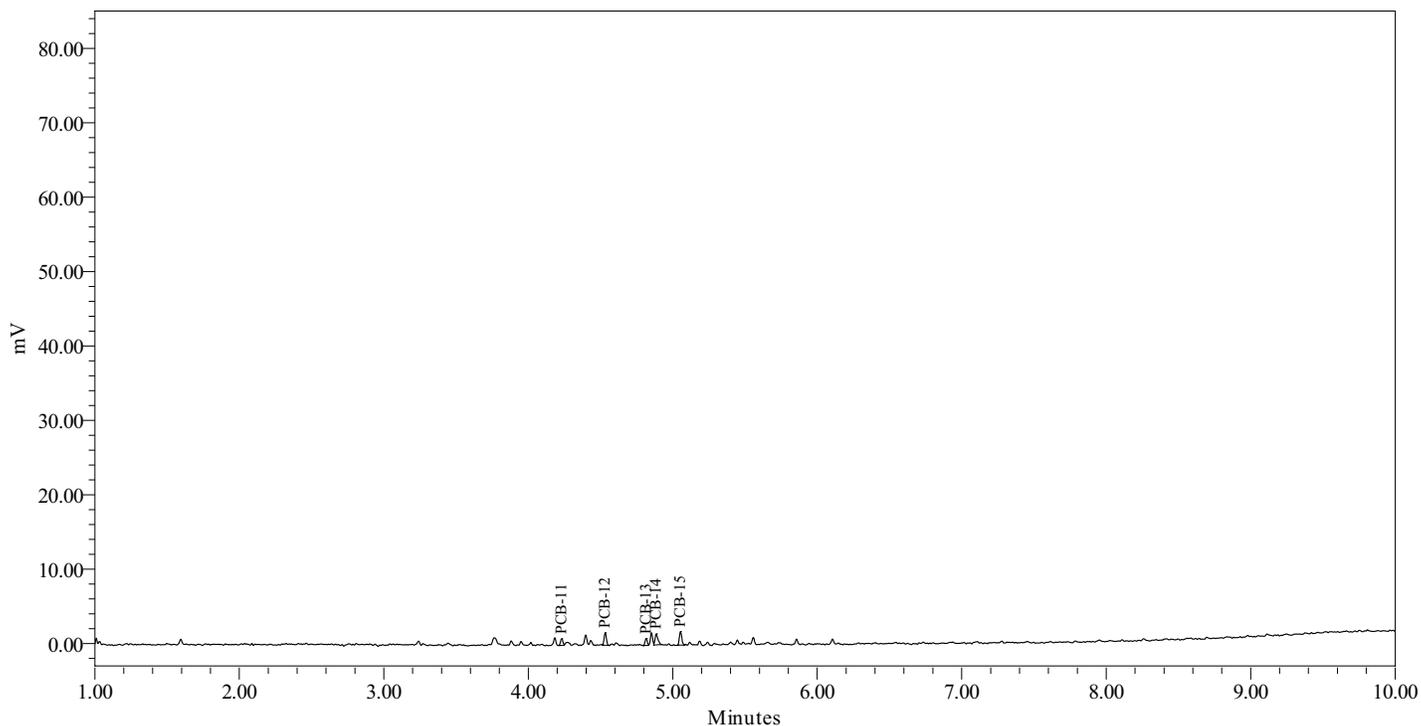
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.231          | bv               | 1011          |
| 2 | PCB-12    | 4.533          | bb               | 1808          |
| 3 | PCB-13    | 4.816          | bV               | 1021          |
| 4 | PCB-14    | 4.886          | Vb               | 2005          |
| 5 | PCB-15    | 5.054          | bb               | 2102          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 7948                | 10.000               |
| 2 | A1248-11/15 | 4835                | 10.000               |
| 3 | A1248-14/15 | 3841                | 10.000               |



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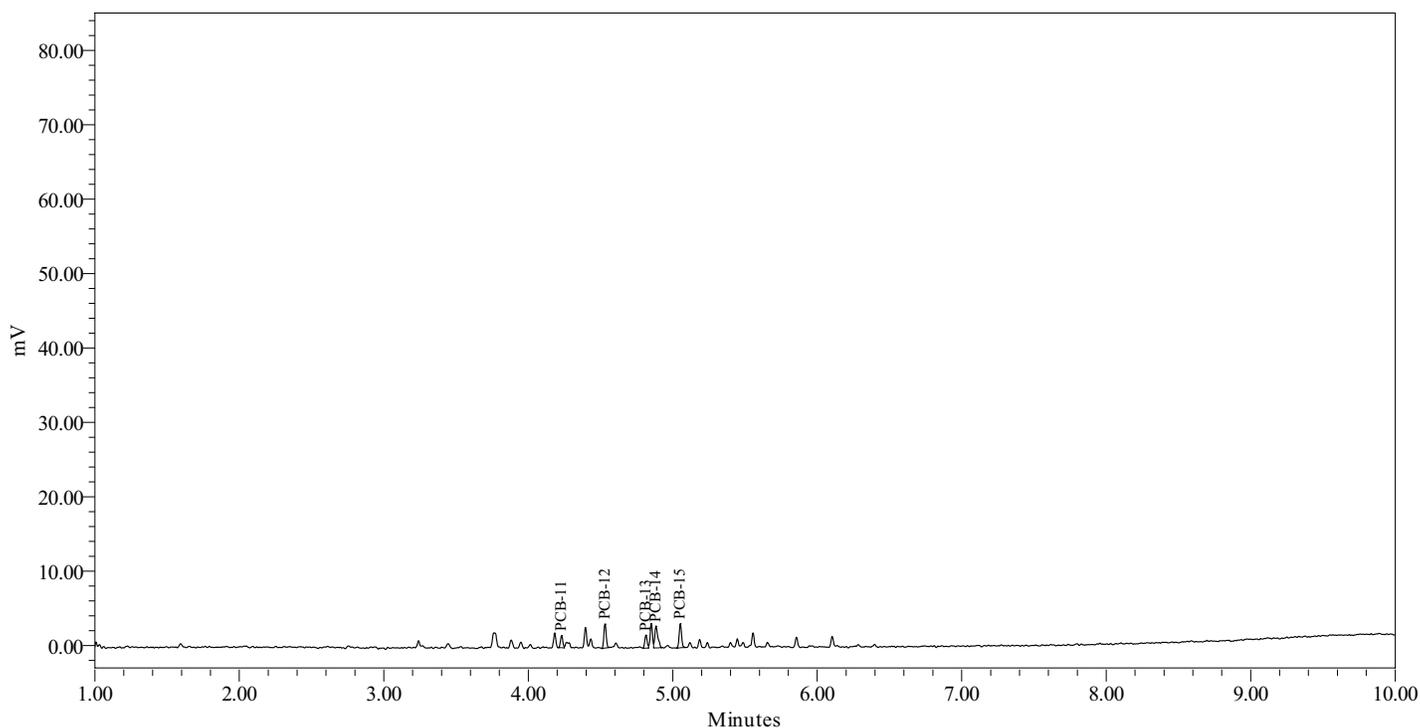
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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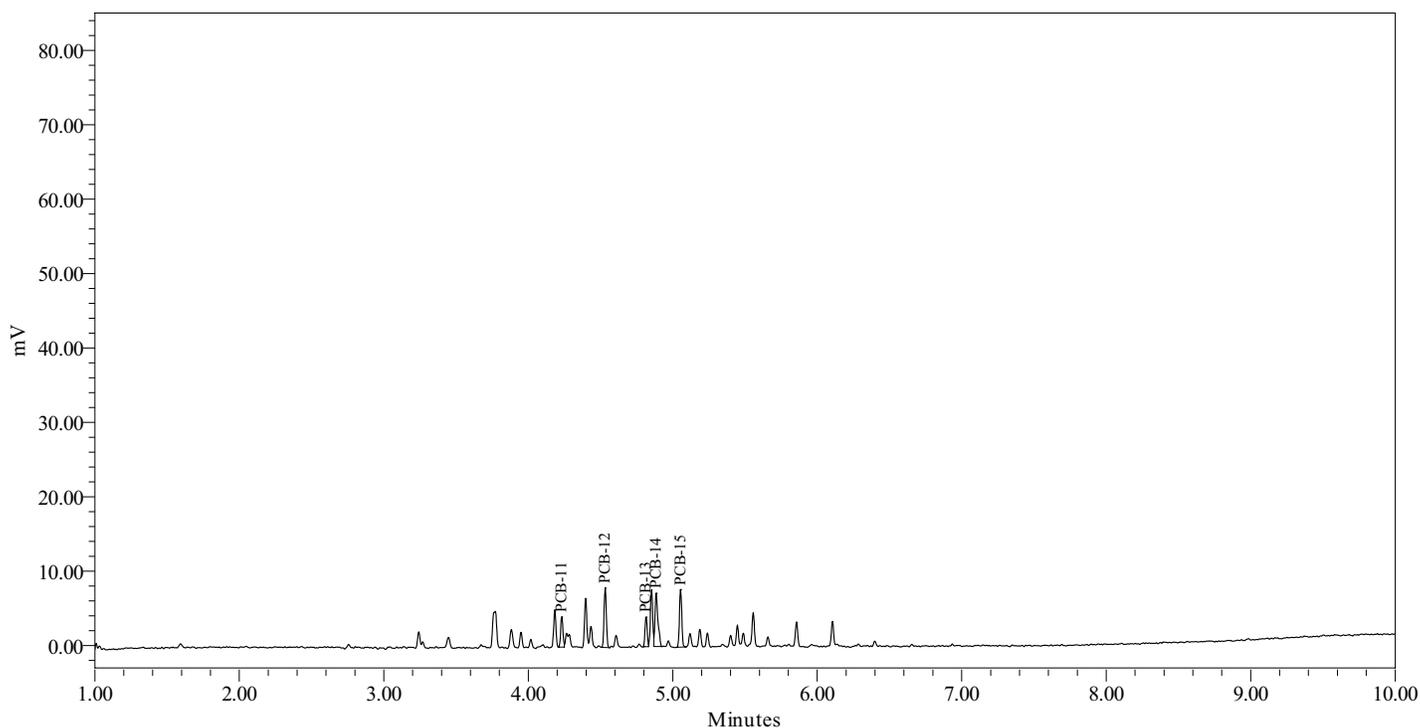
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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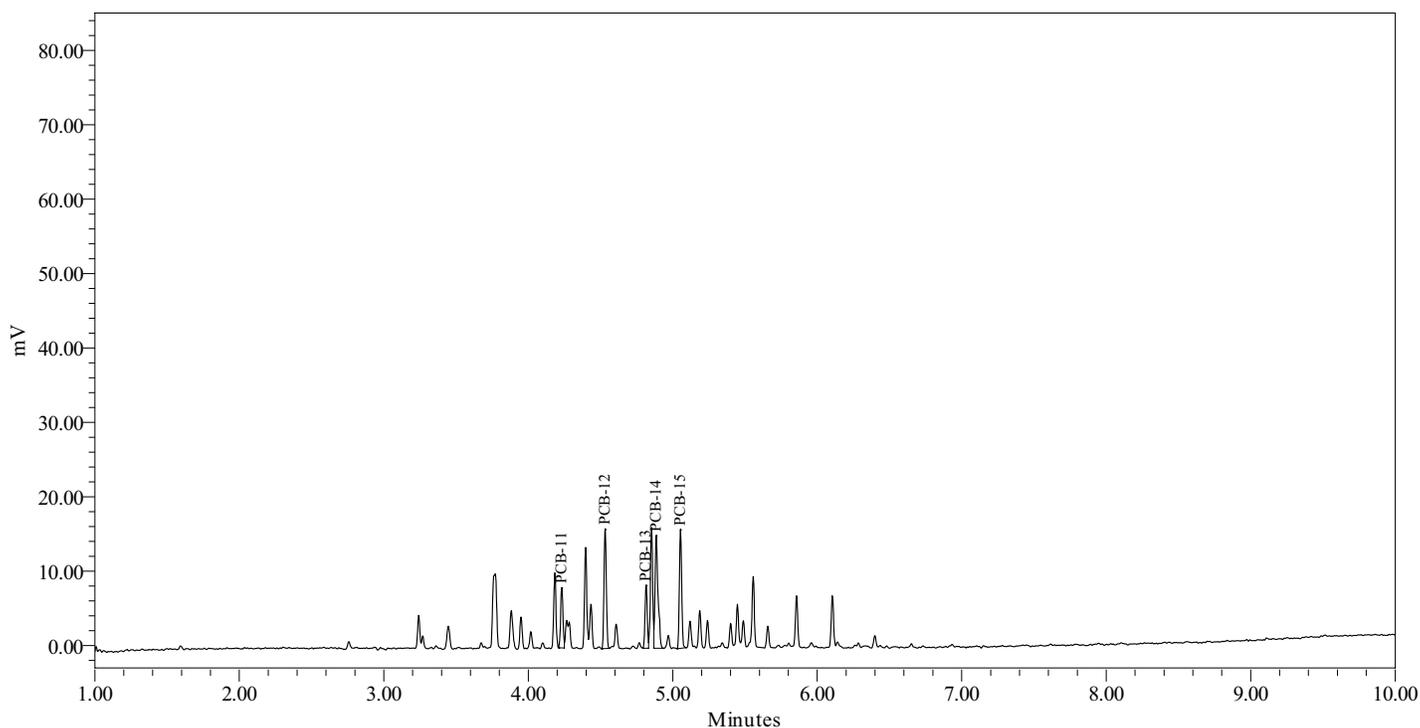
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 8932          |
| 2 PCB-12  | 4.532          | bb               | 17877         |
| 3 PCB-13  | 4.816          | bV               | 9092          |
| 4 PCB-14  | 4.886          | Vb               | 21535         |
| 5 PCB-15  | 5.054          | bb               | 17510         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 74946               | 100.000              |
| 2 A1248-11/15 | 48504               | 100.000              |
| 3 A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

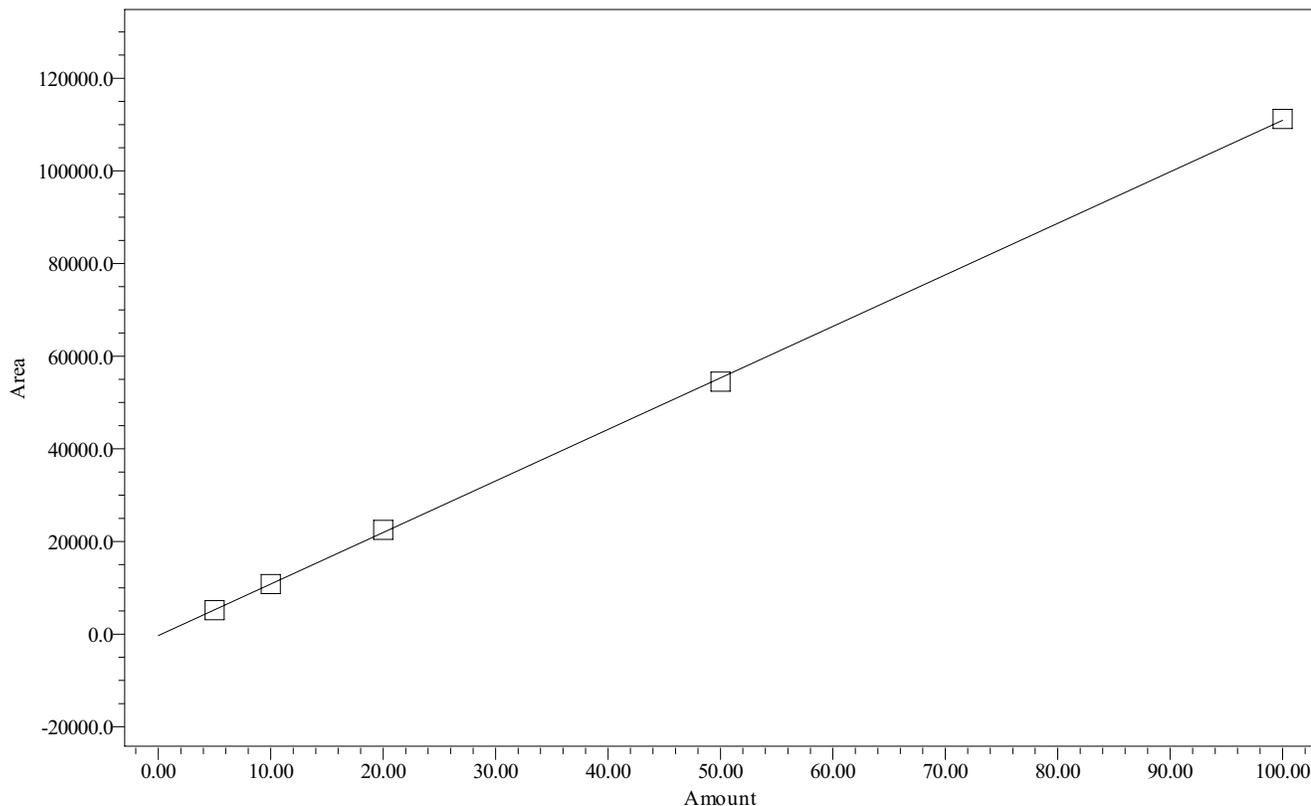
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

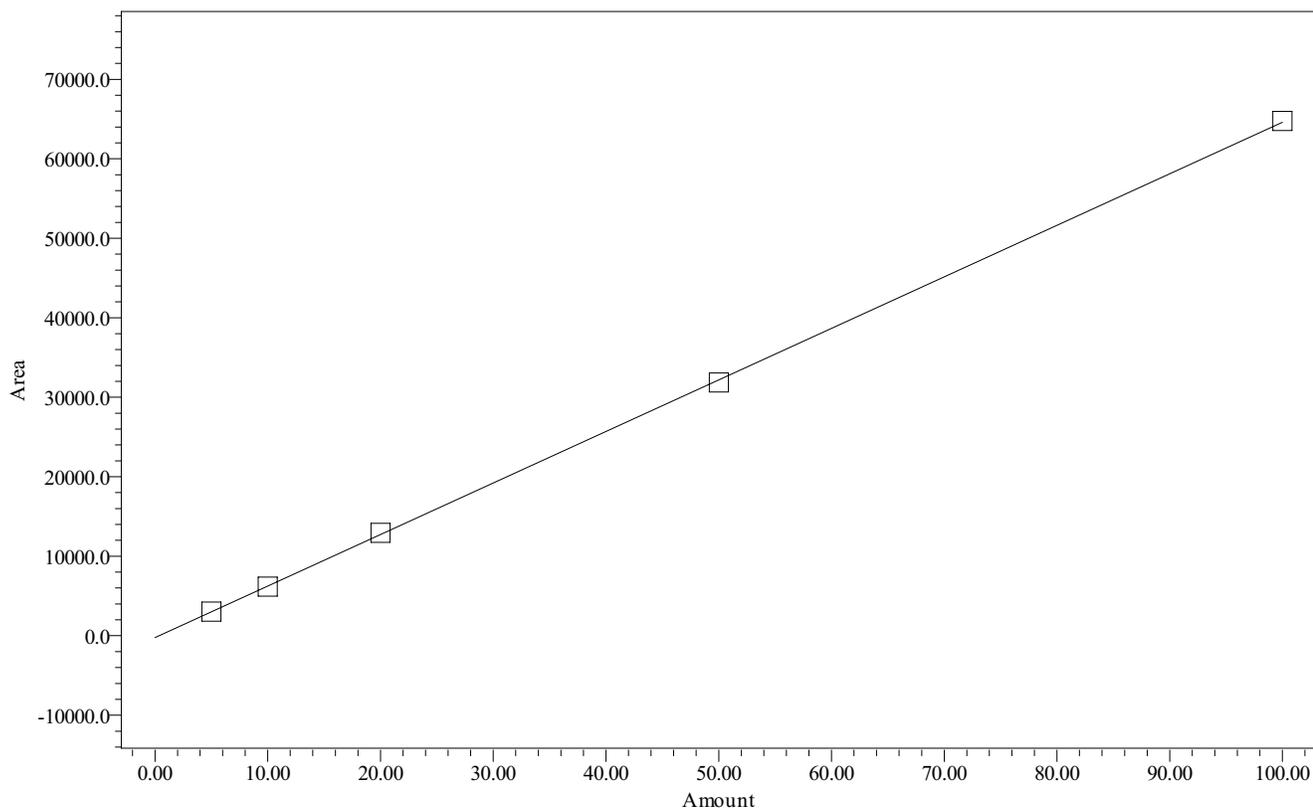
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

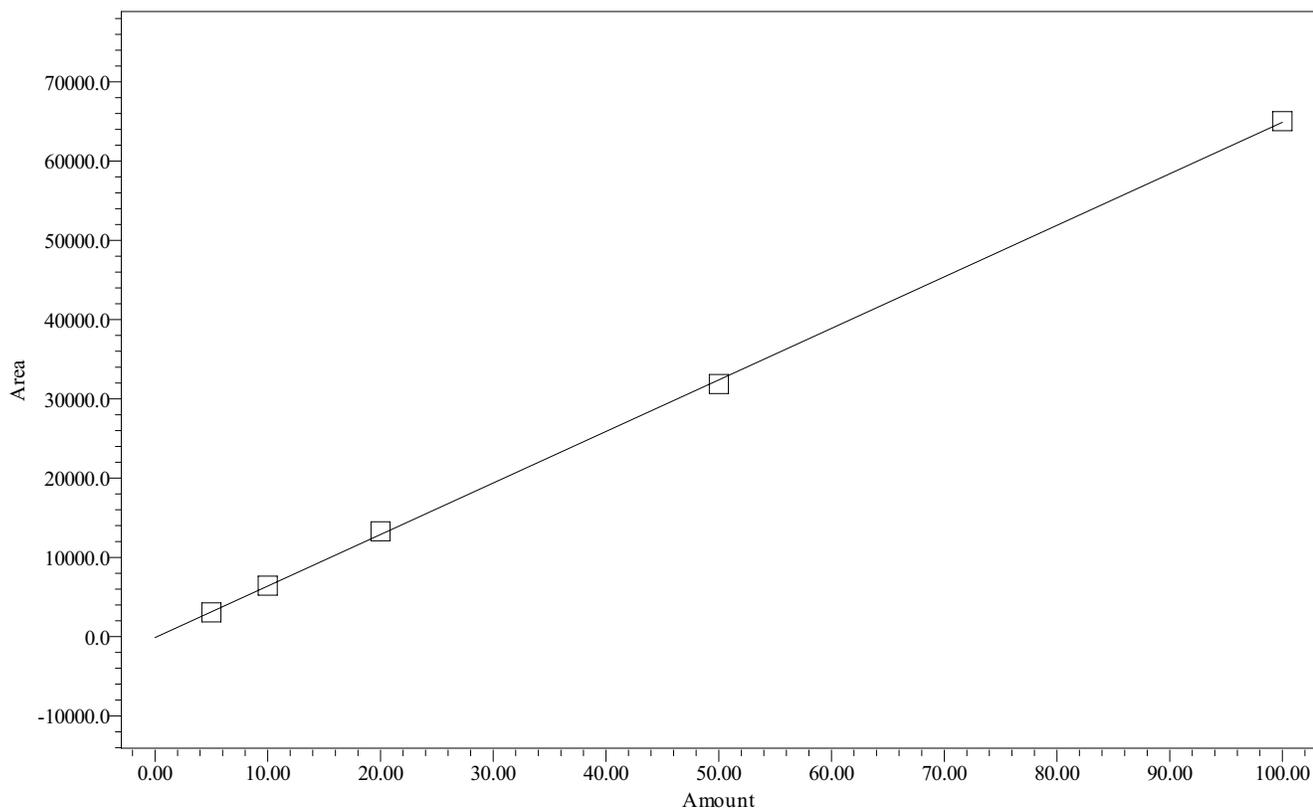
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

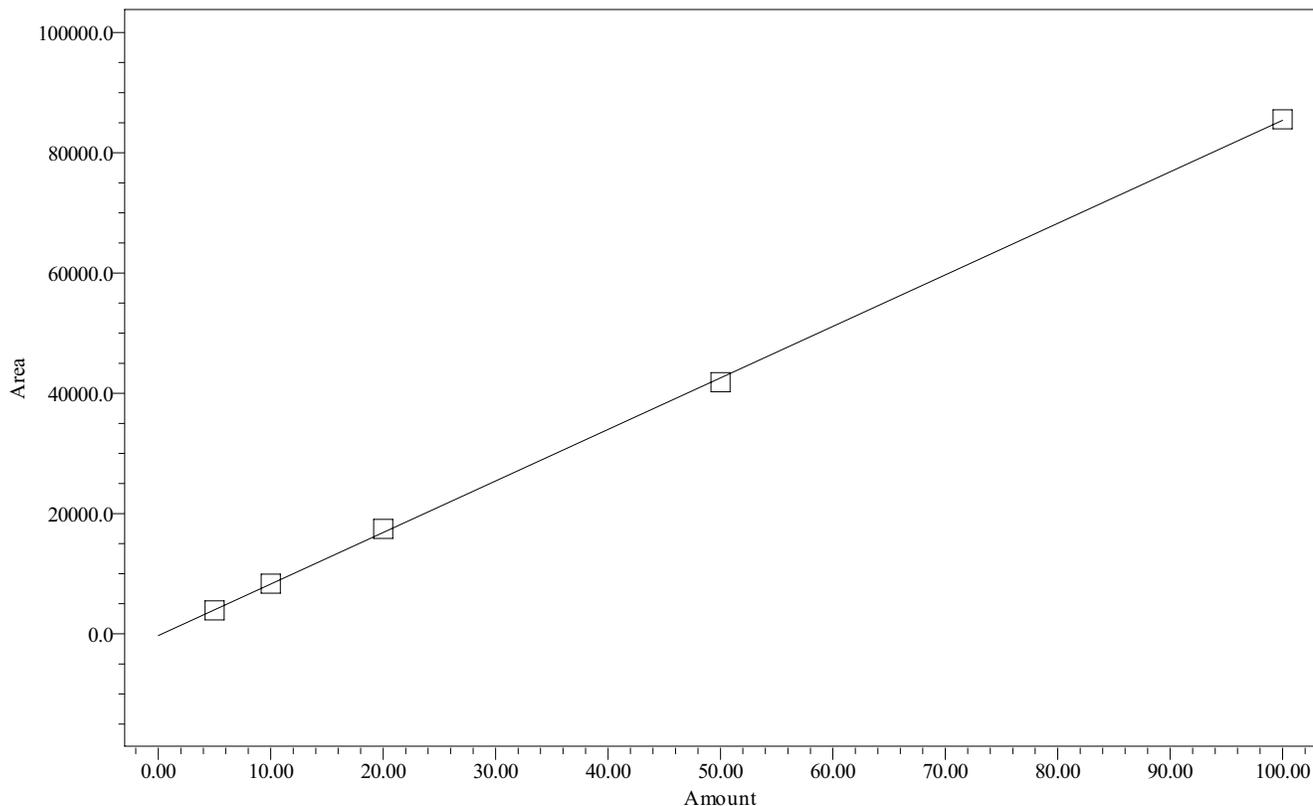
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

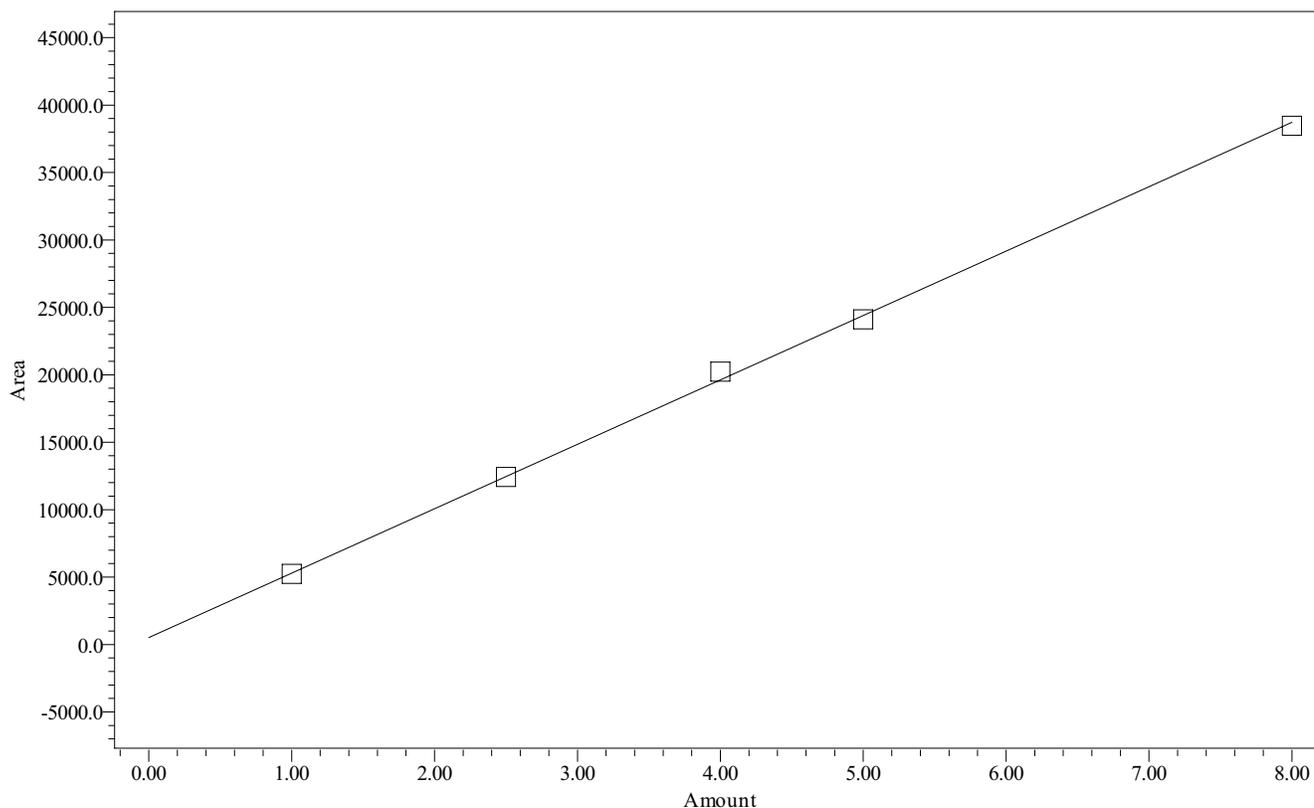
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

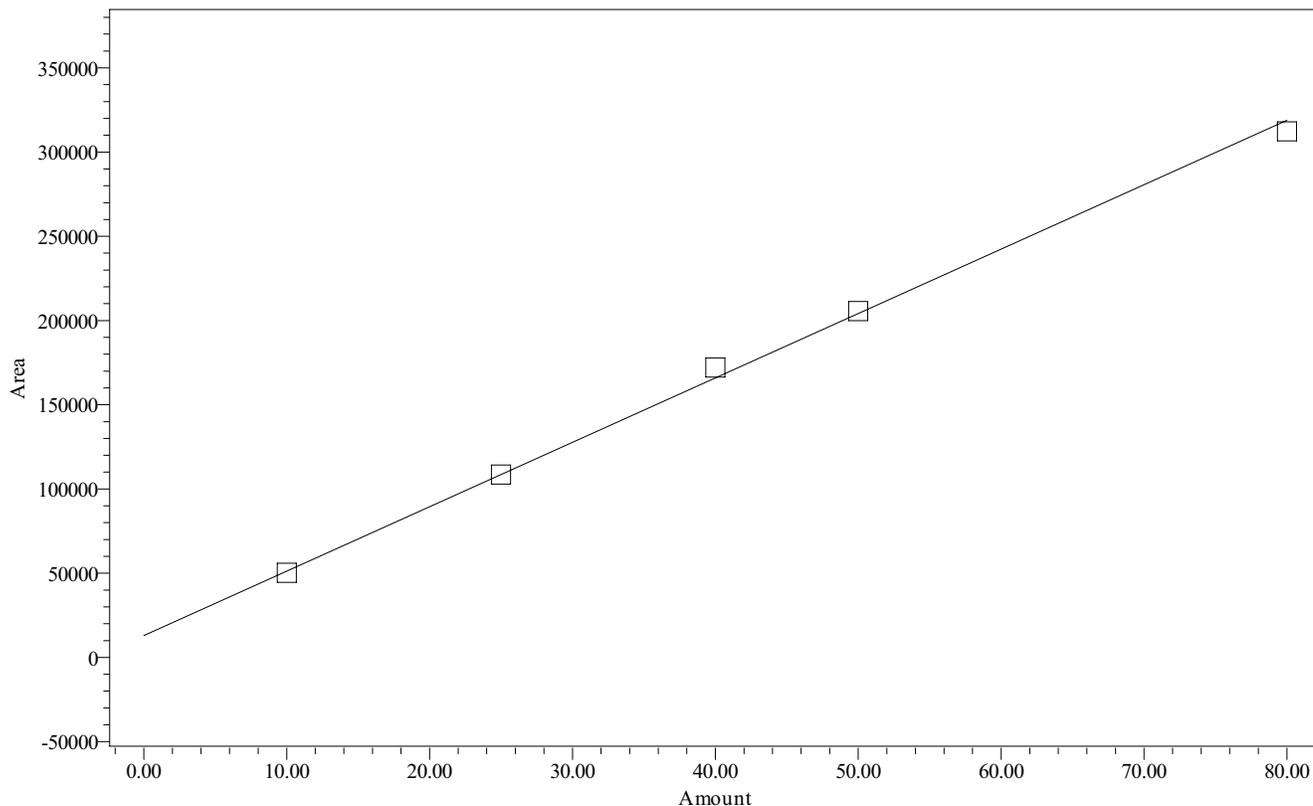
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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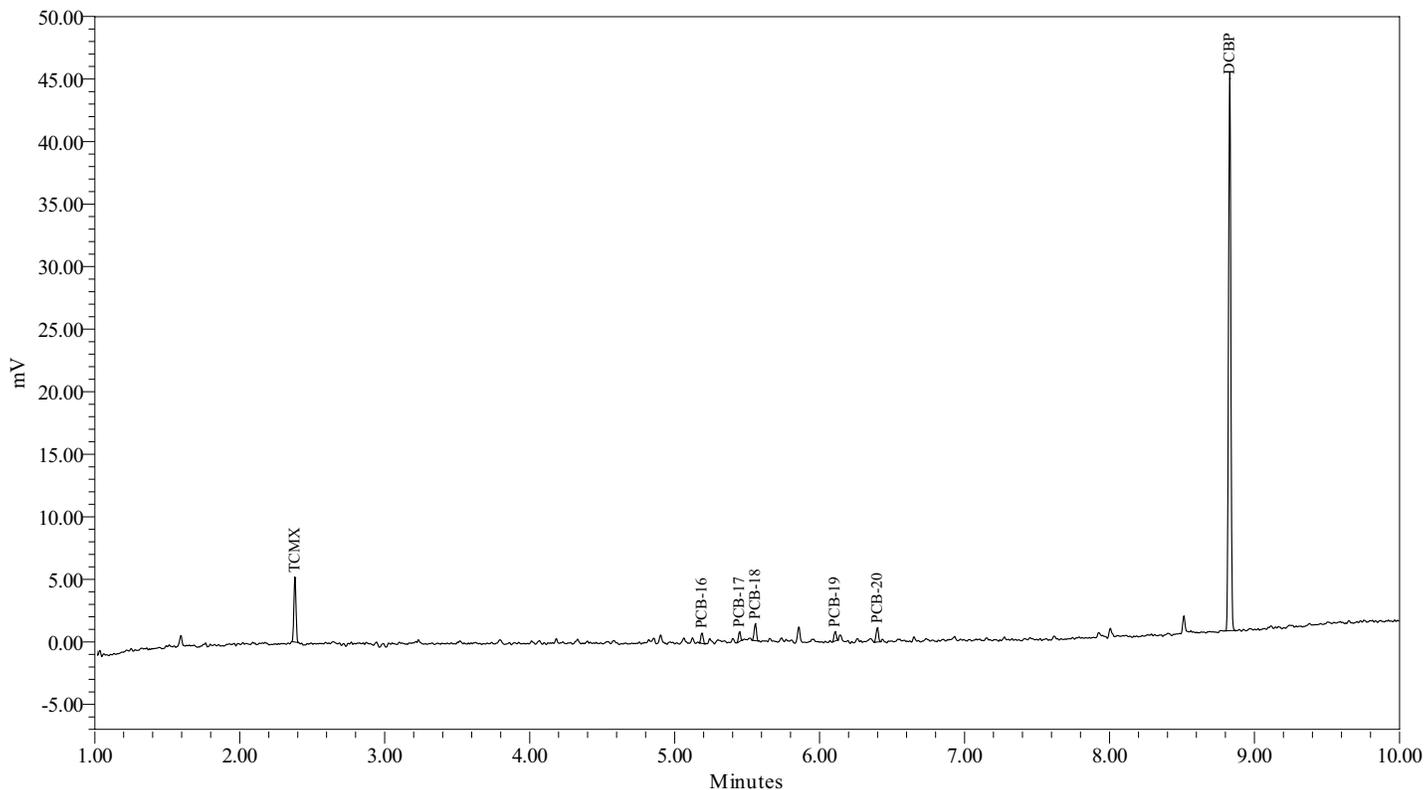
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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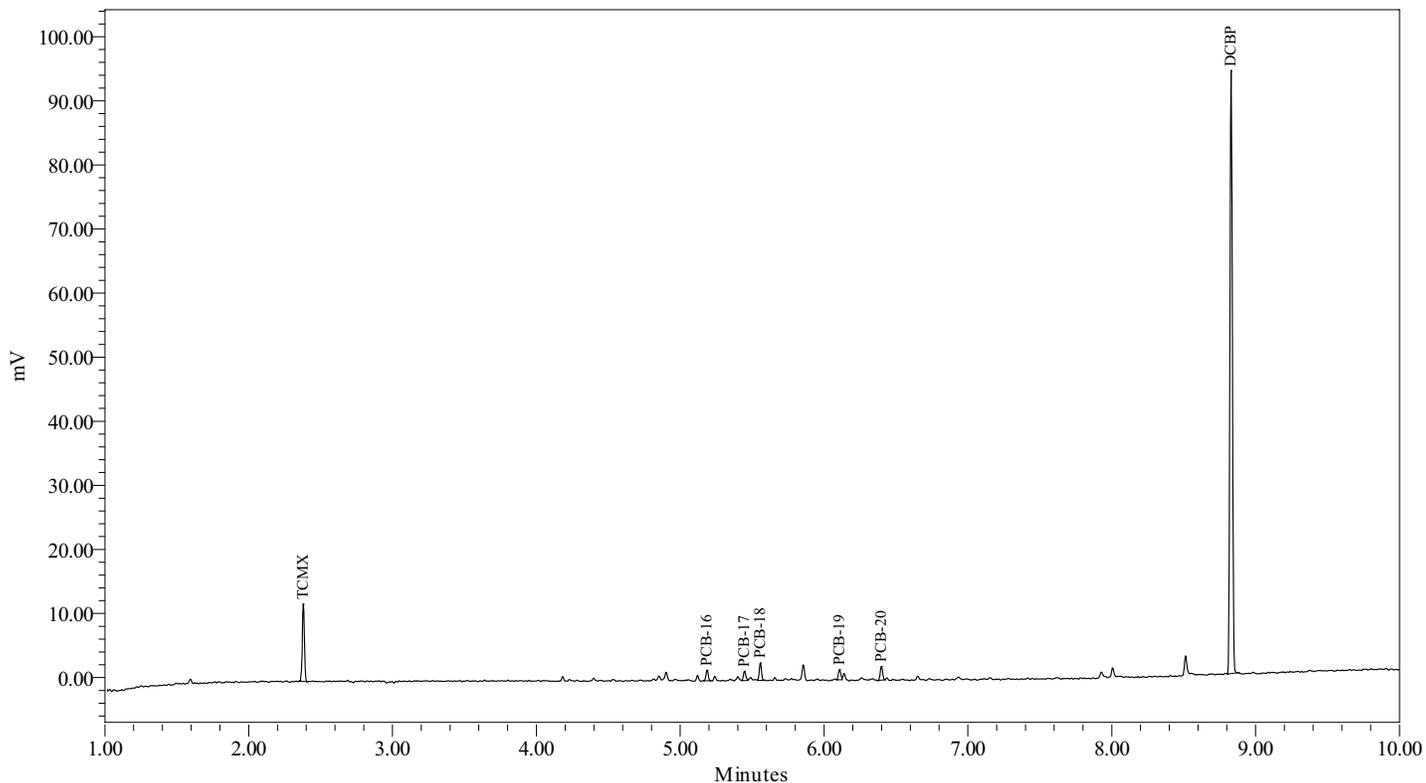
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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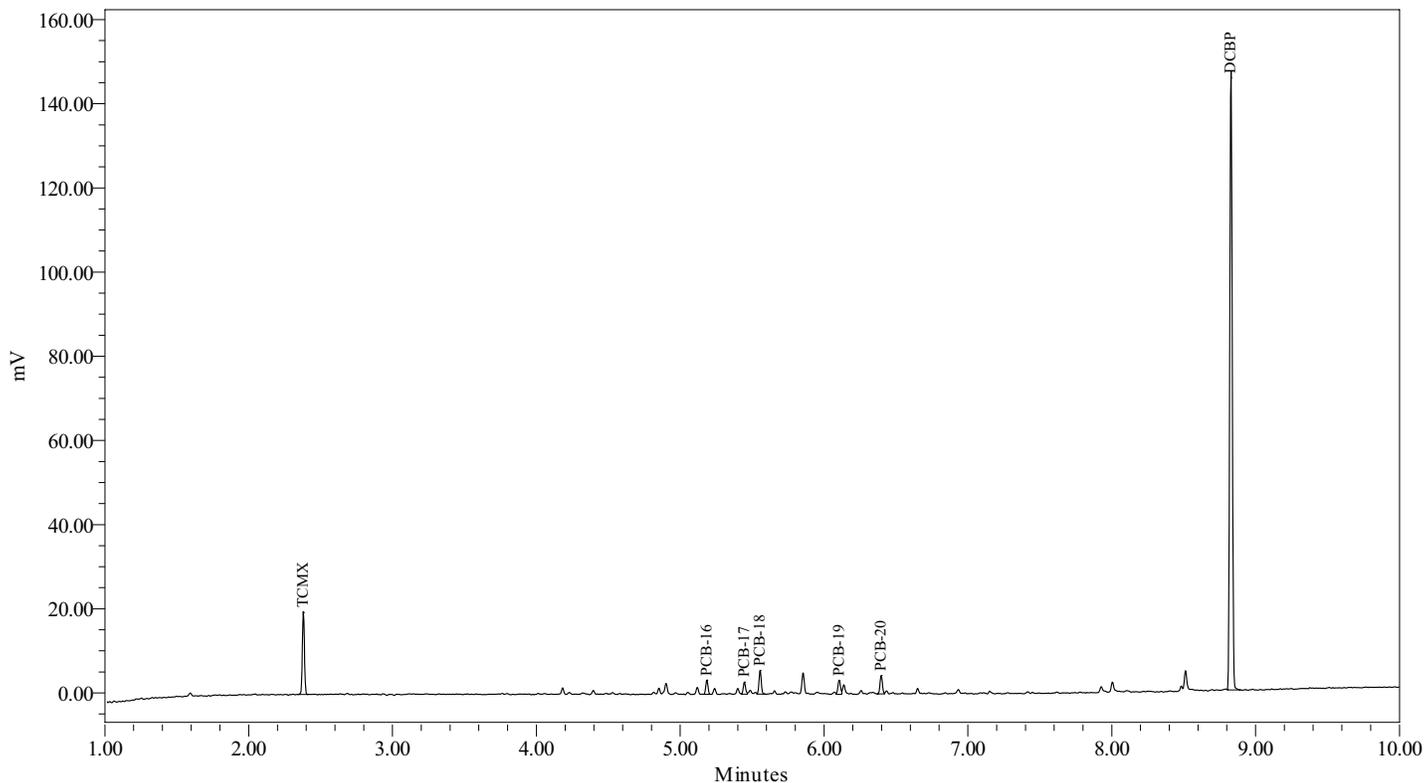
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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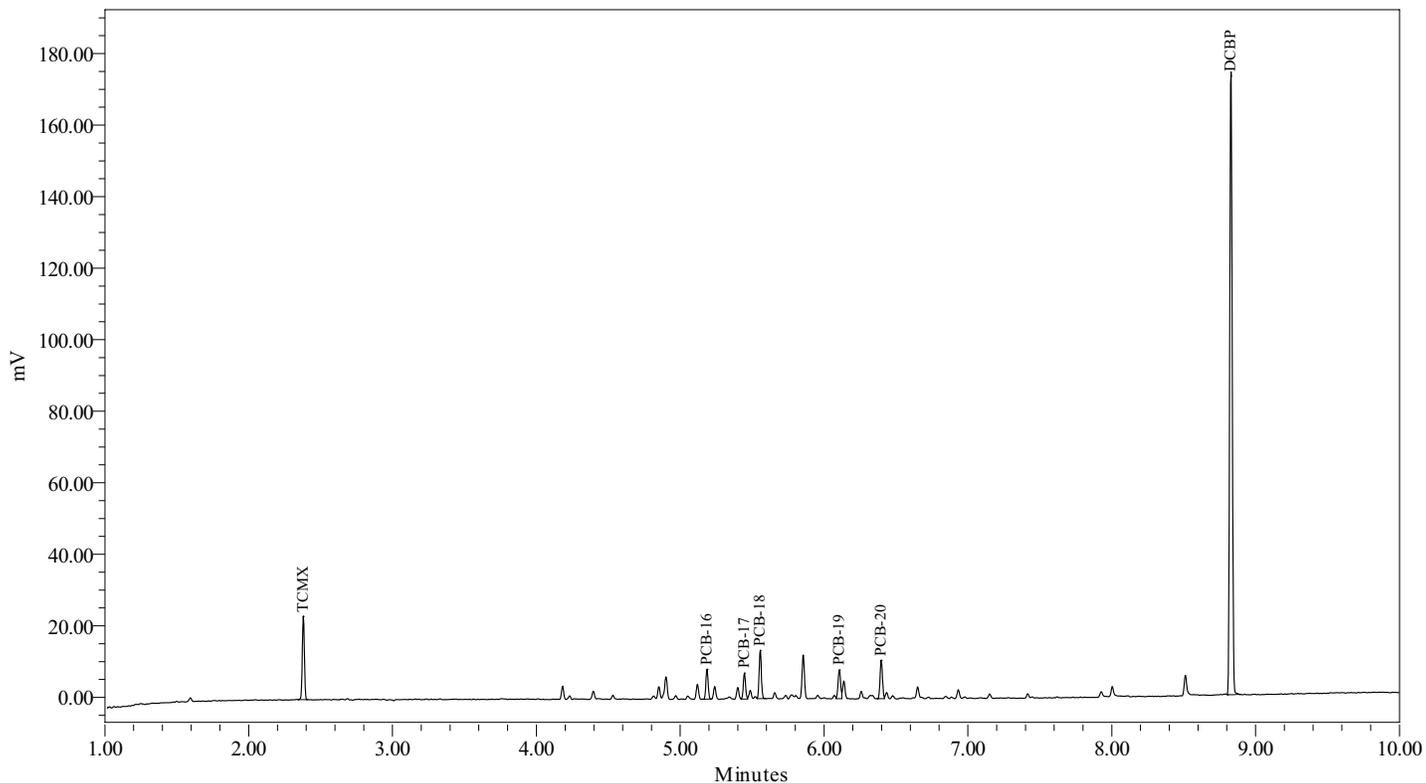
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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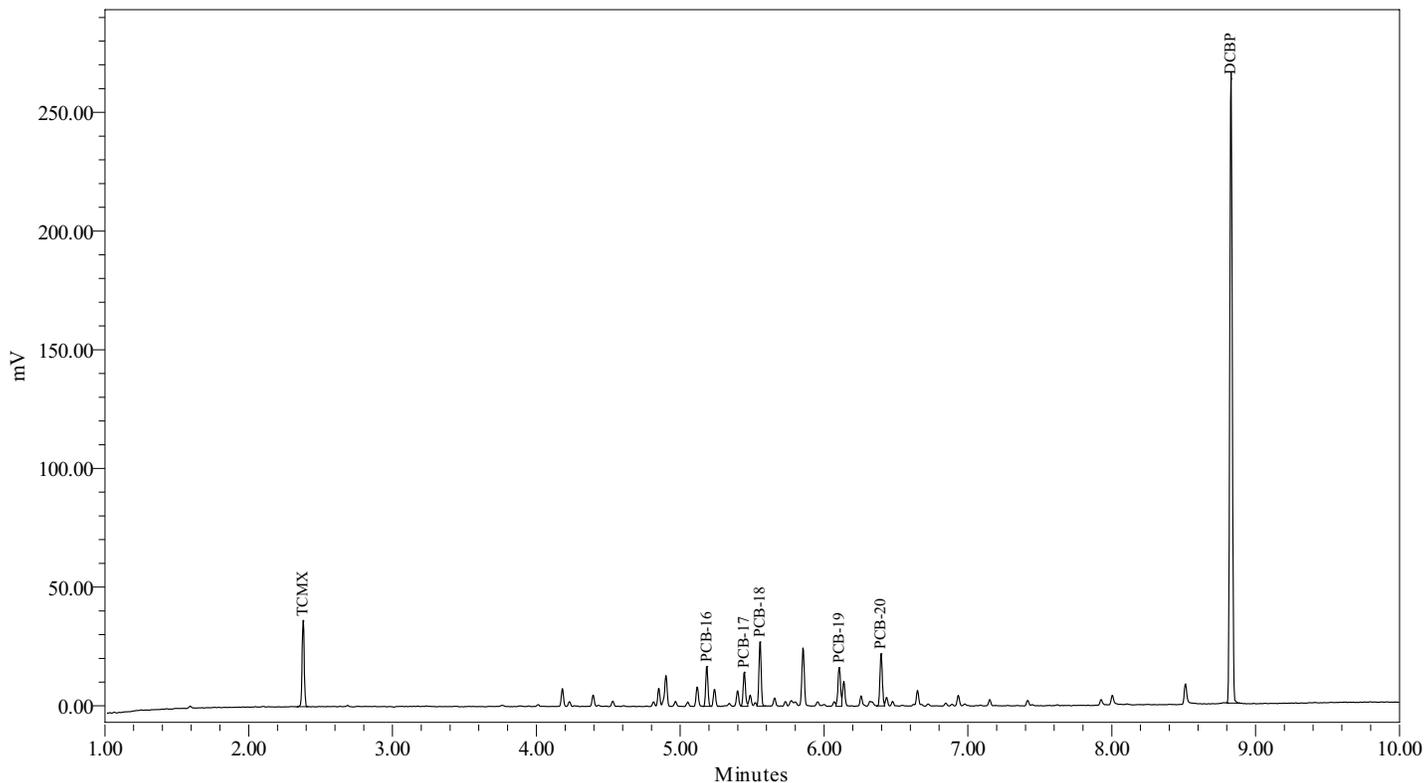
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

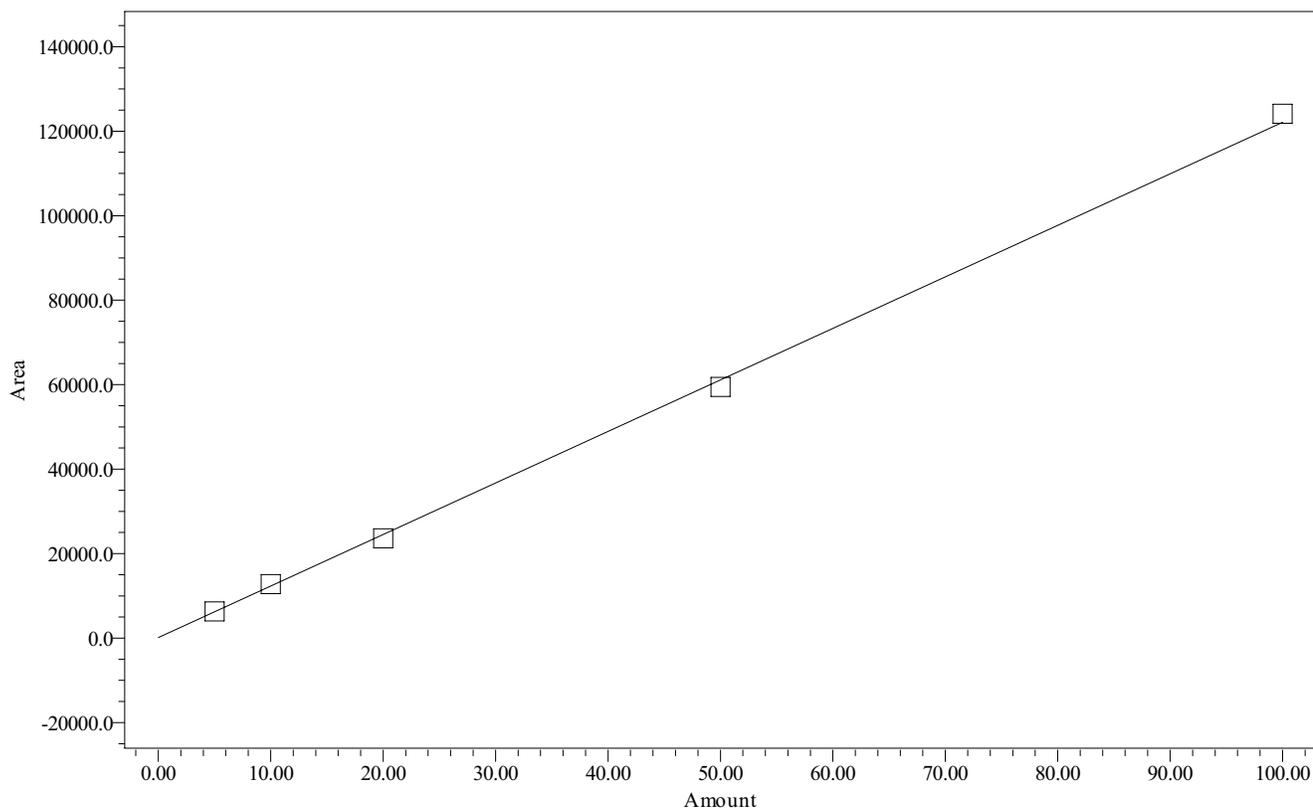
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

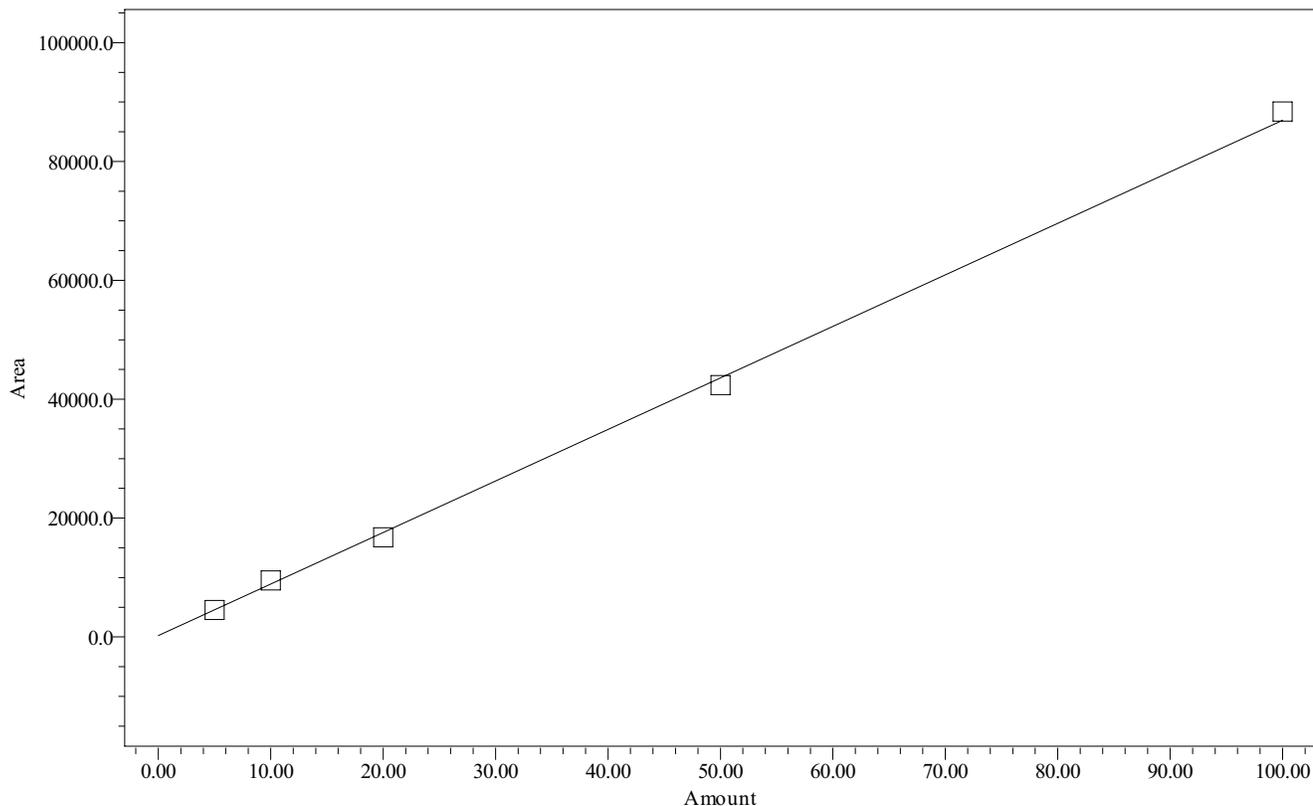
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

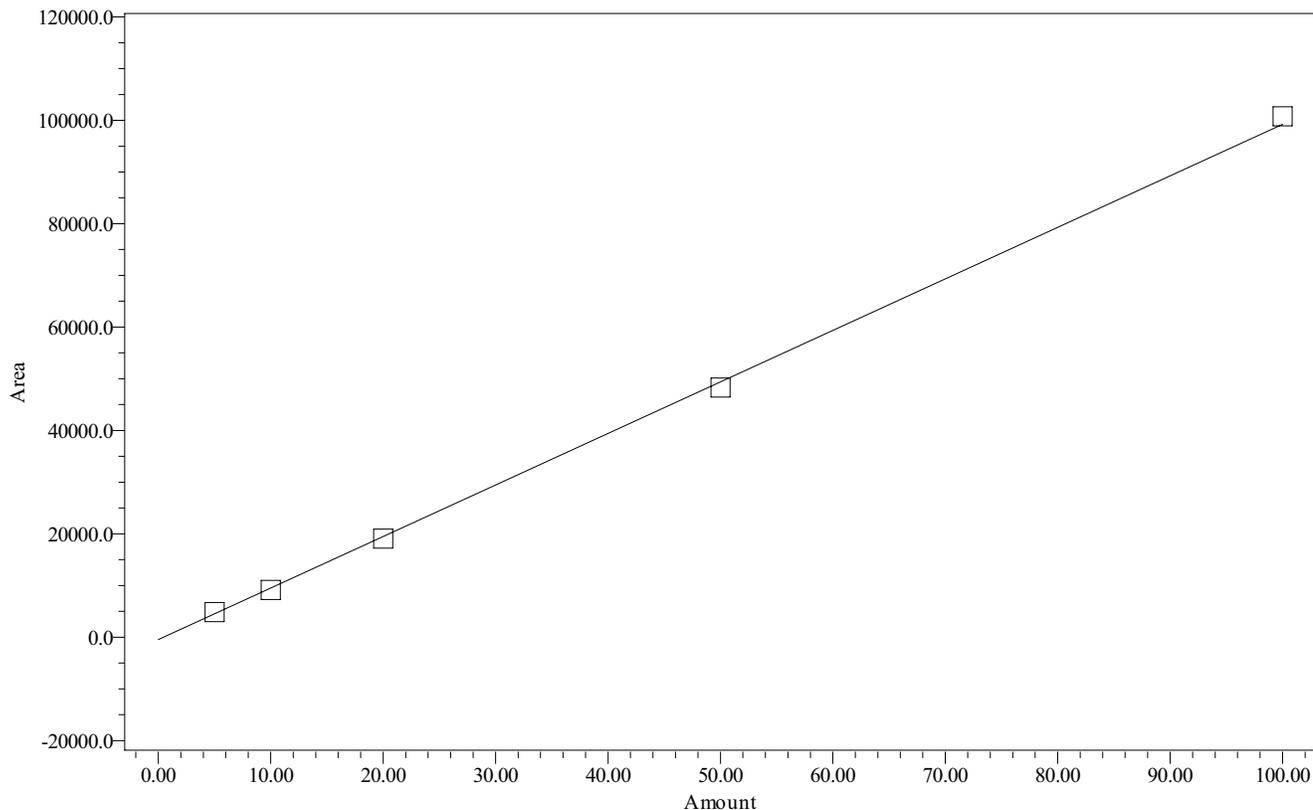
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|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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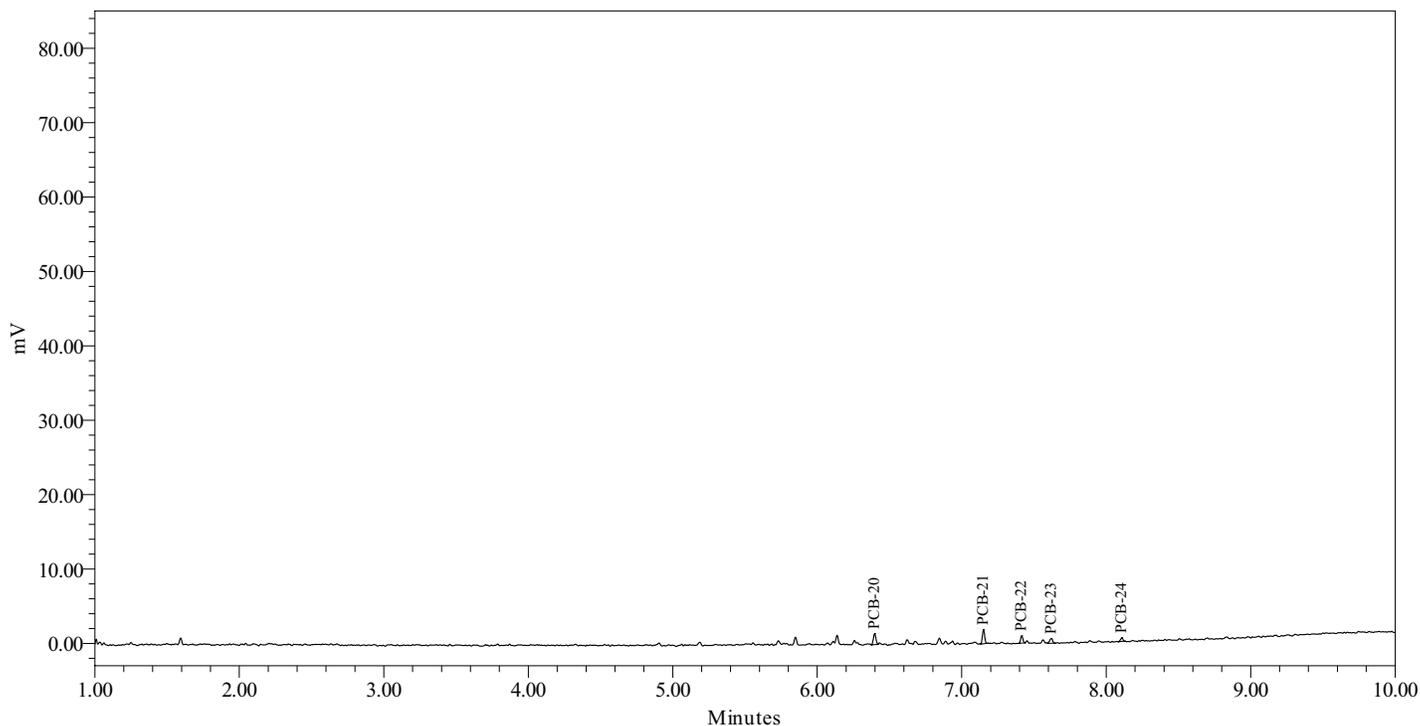
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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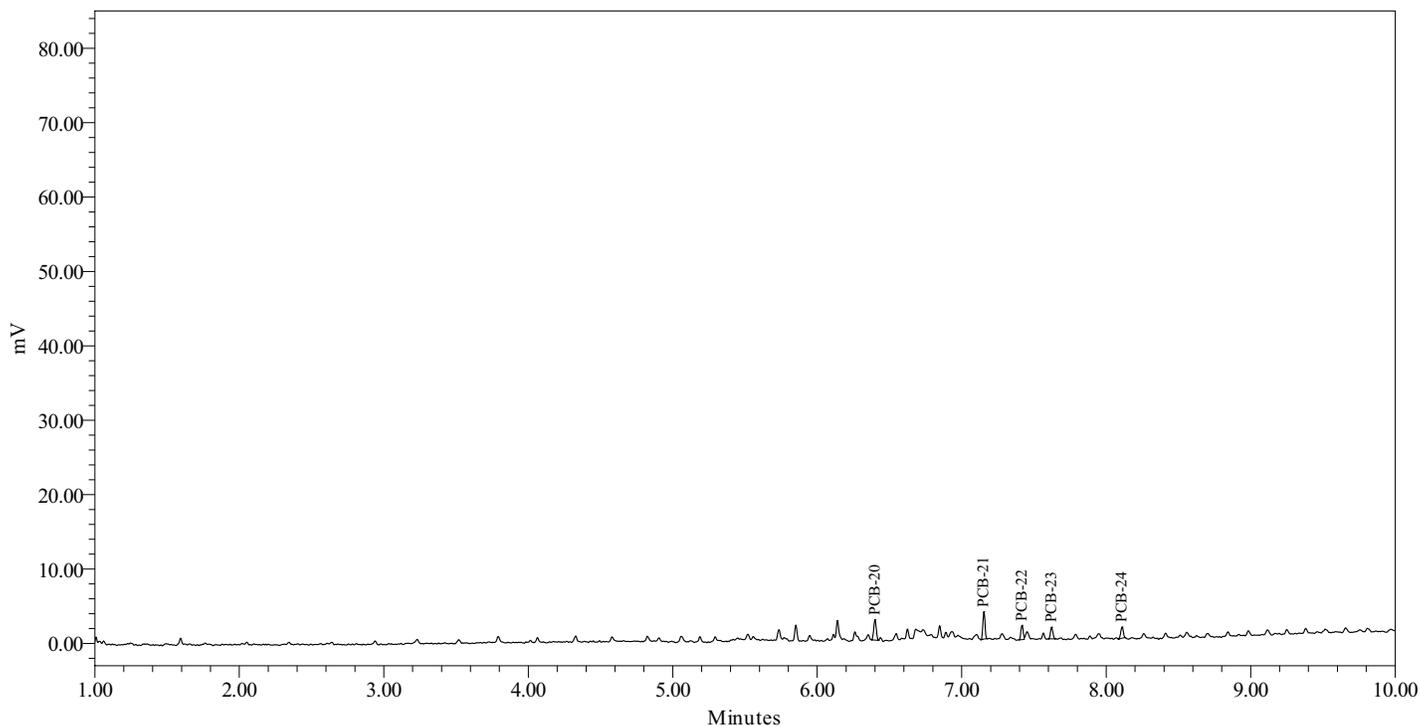
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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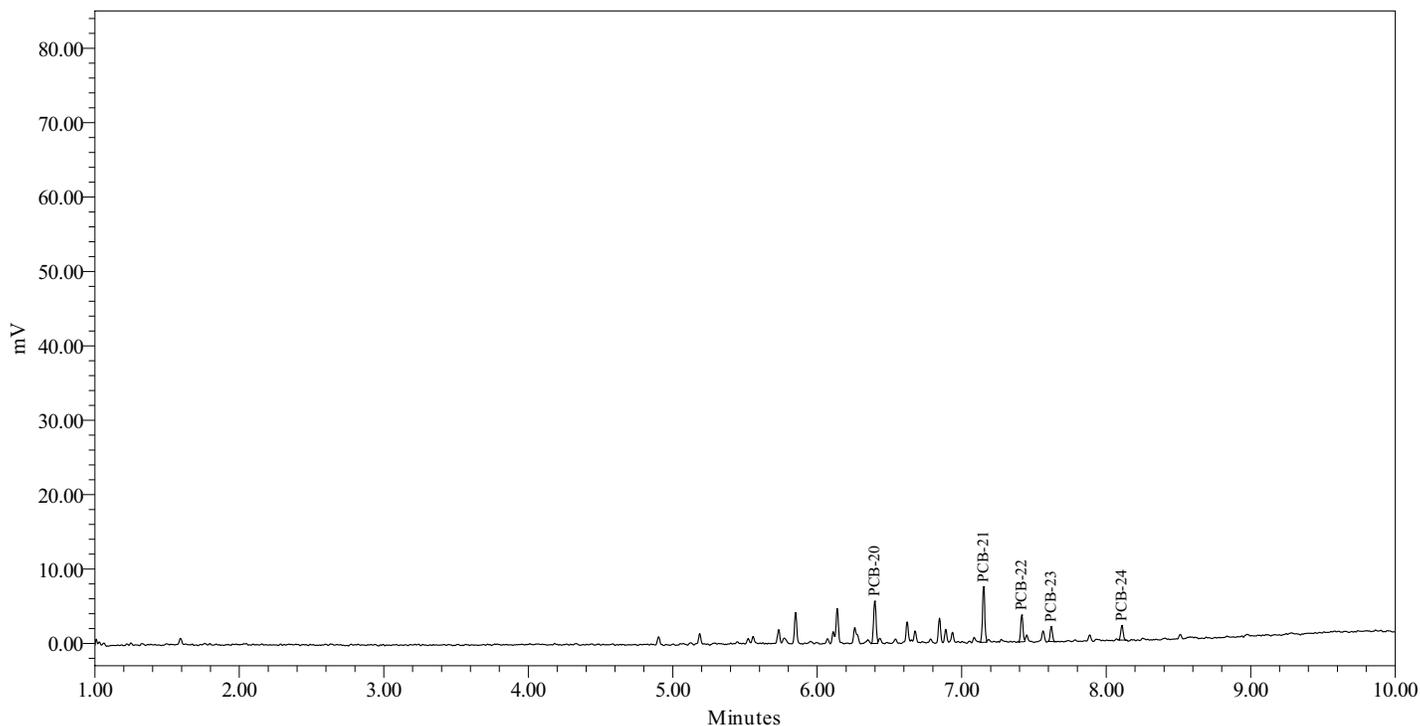
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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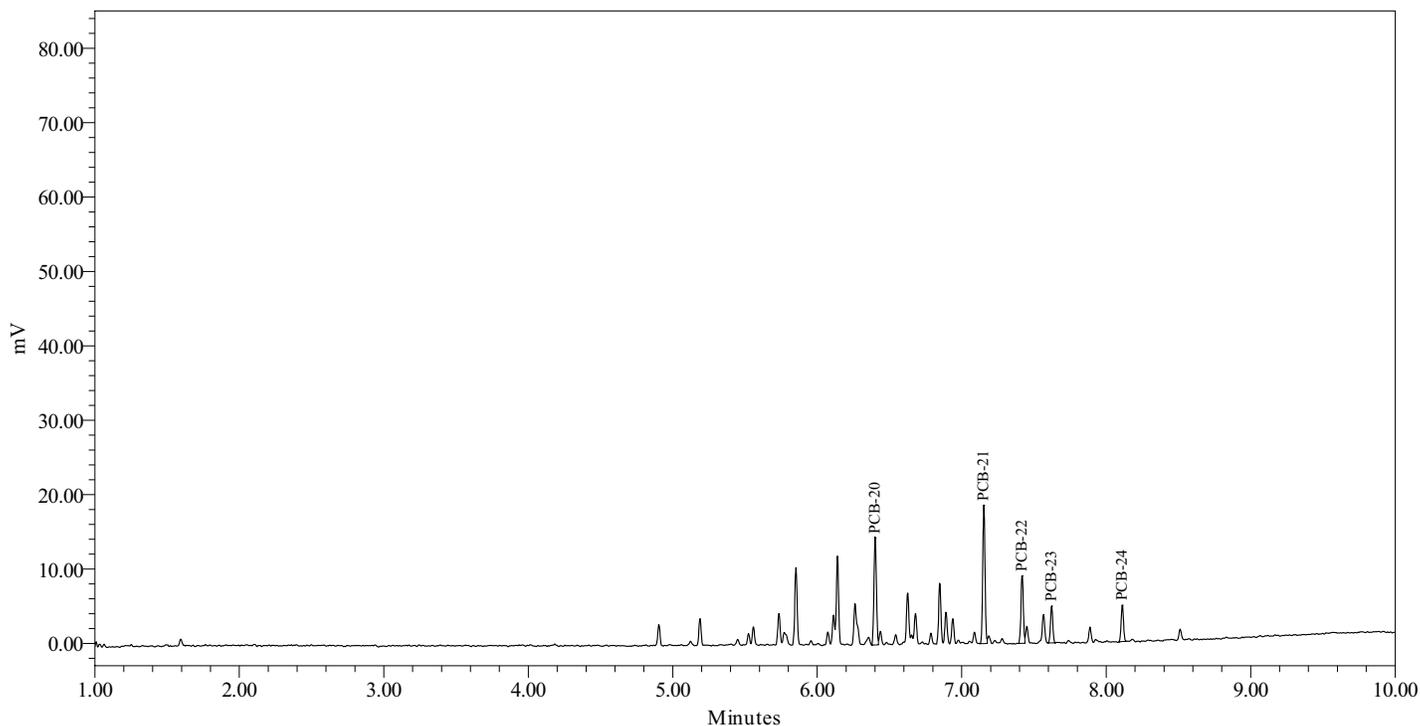
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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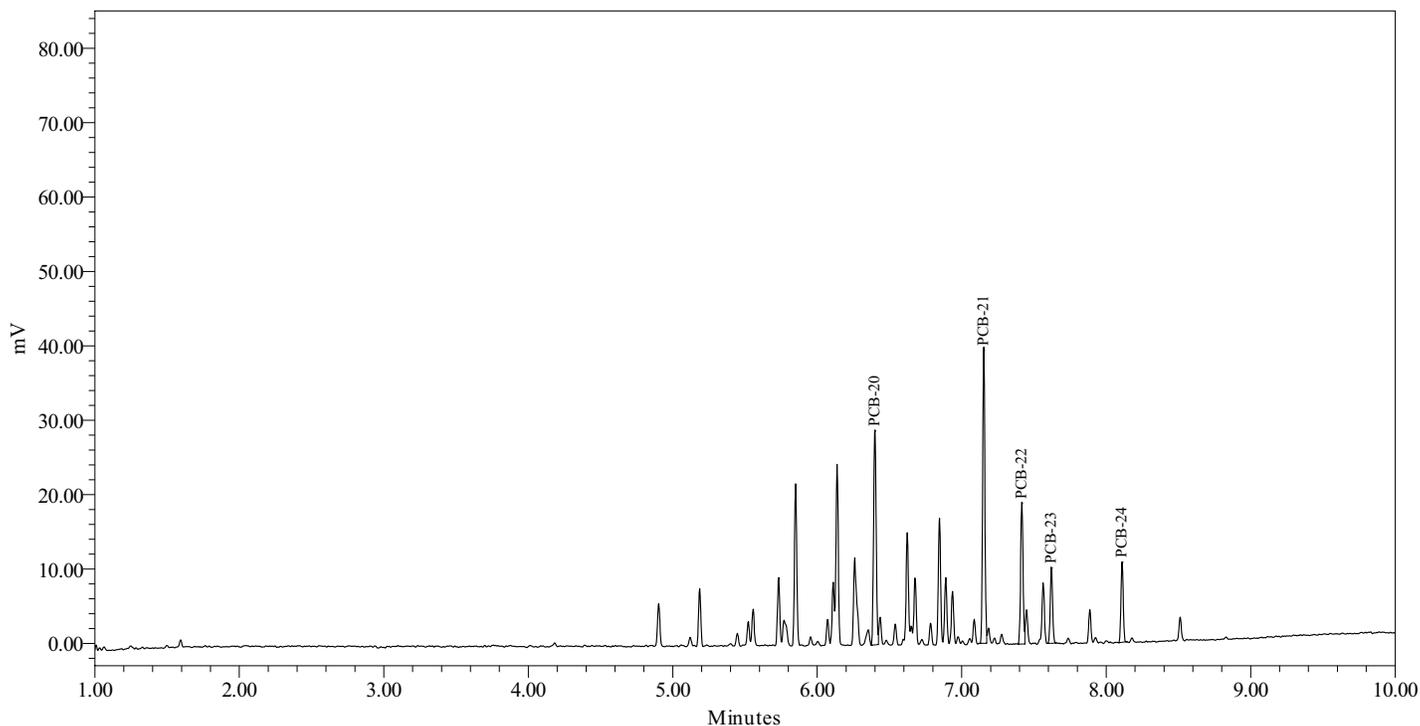
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

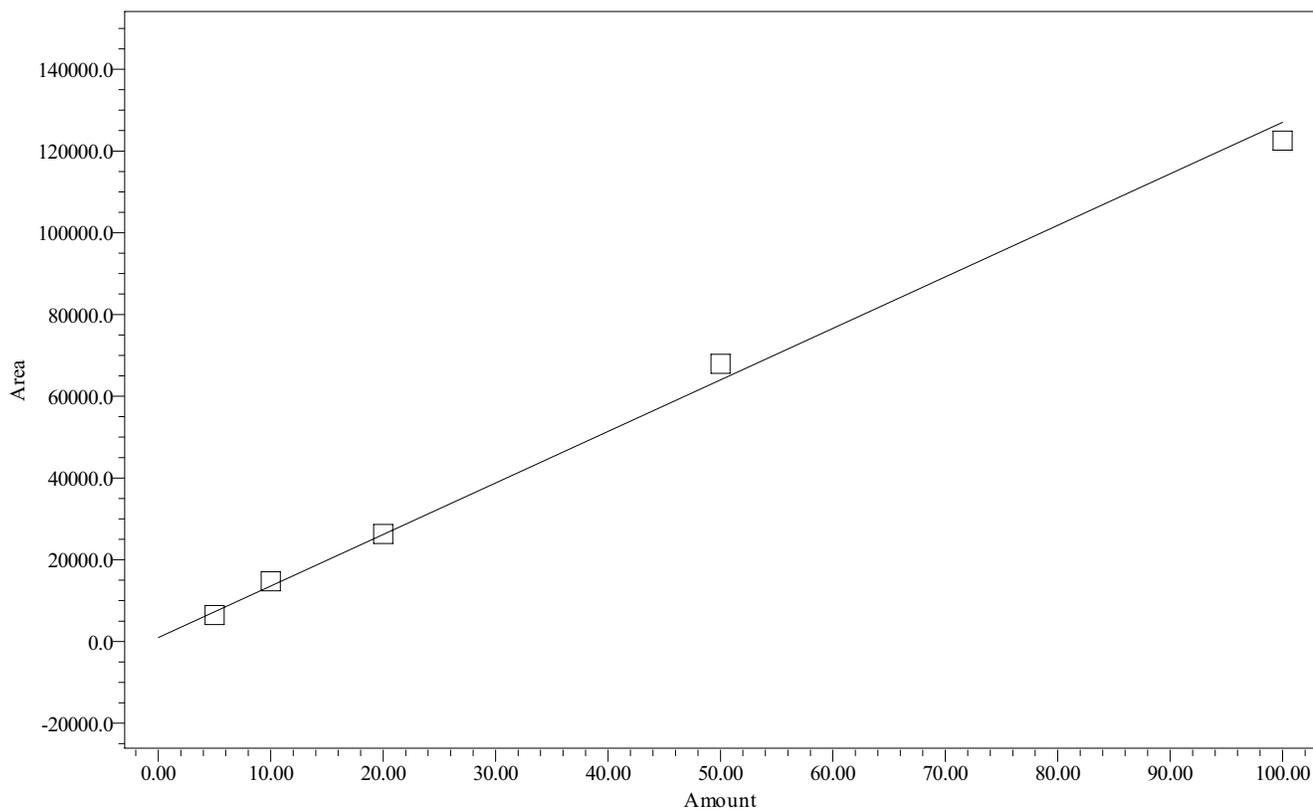
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1262                    | Coefficient constant A:           | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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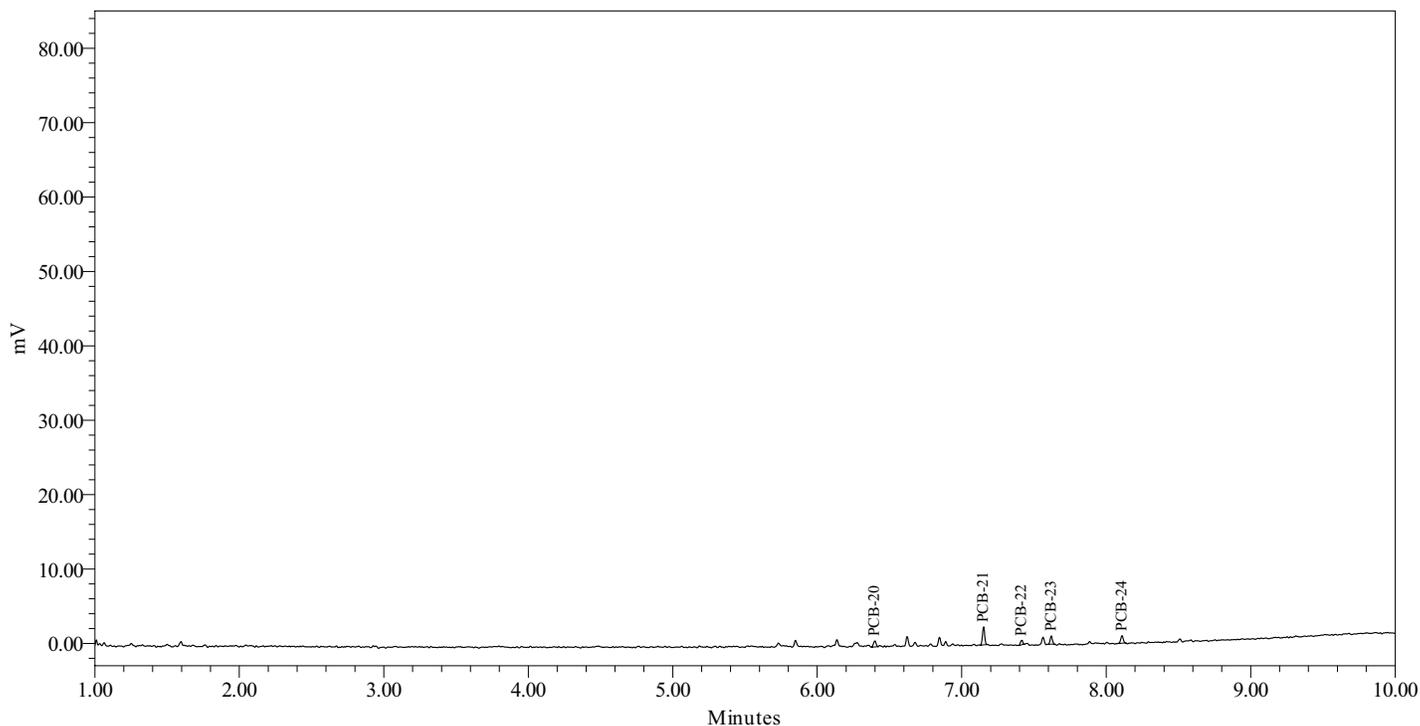
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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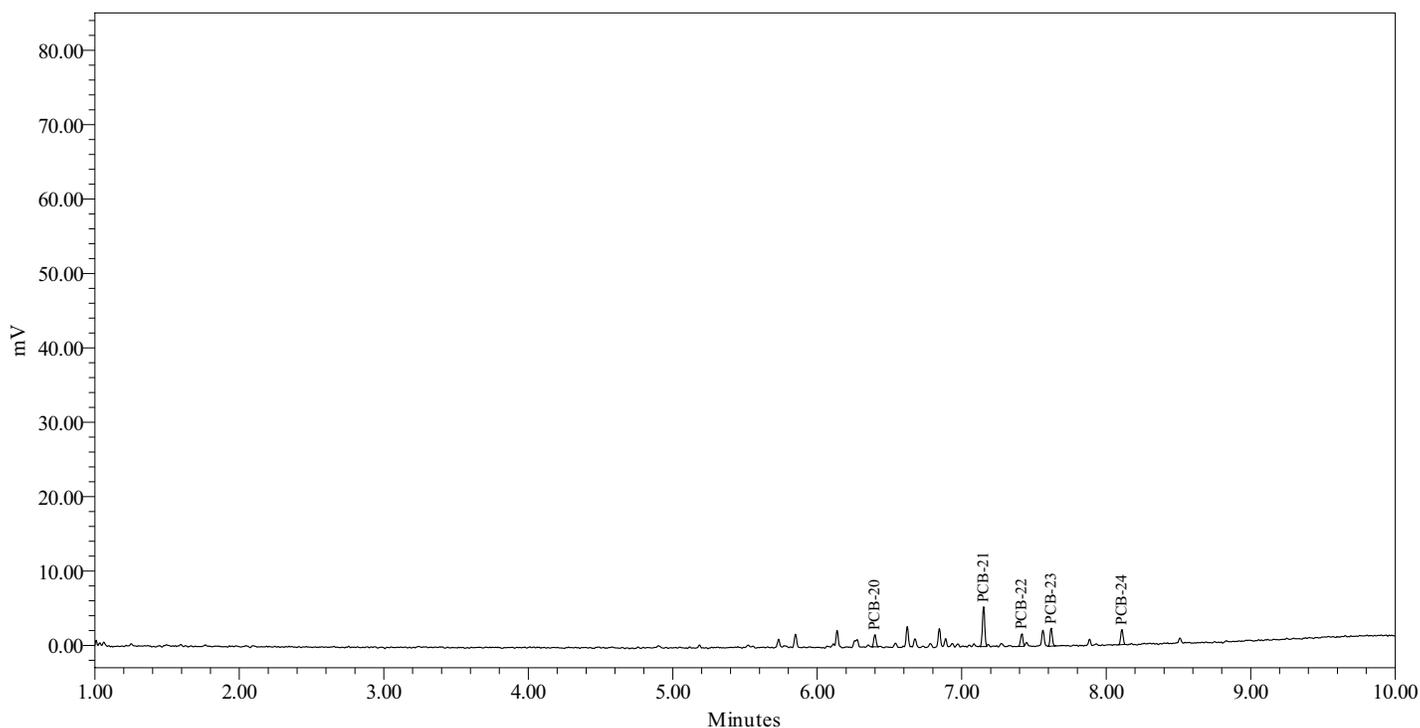
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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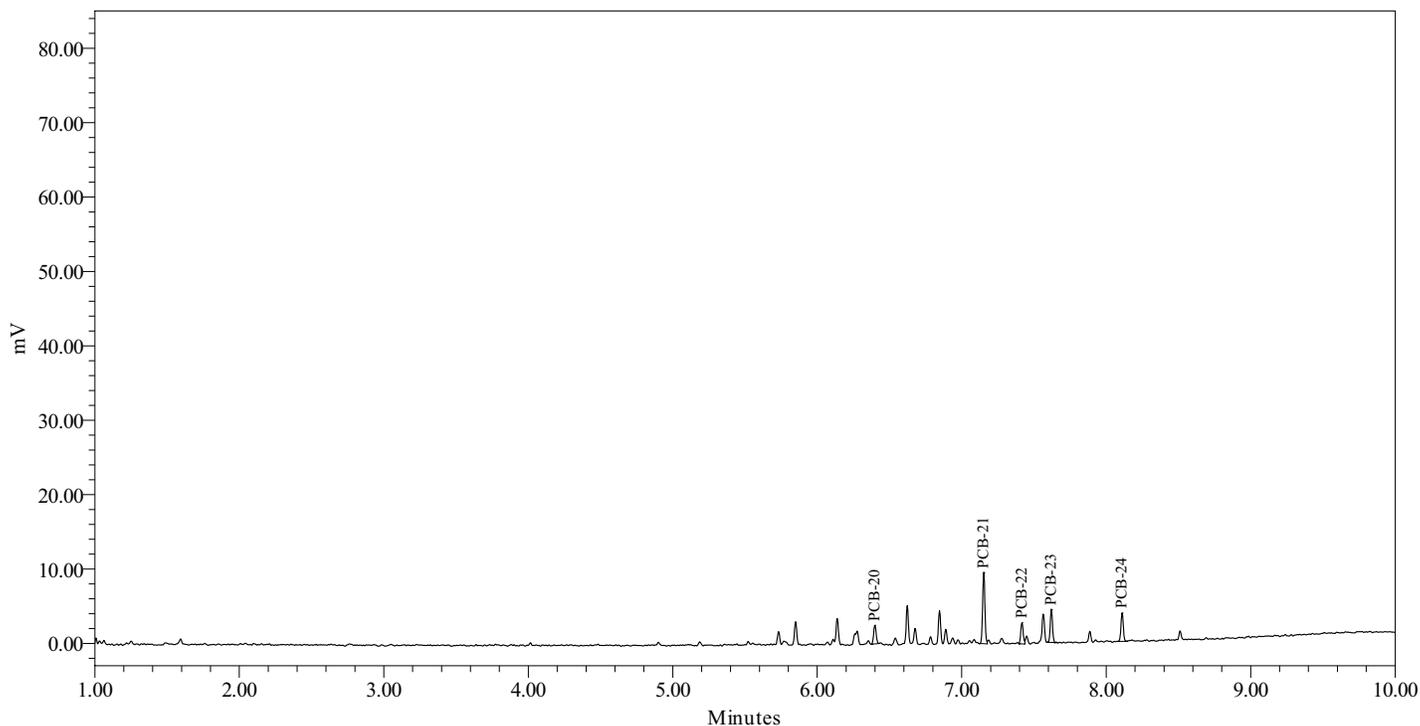
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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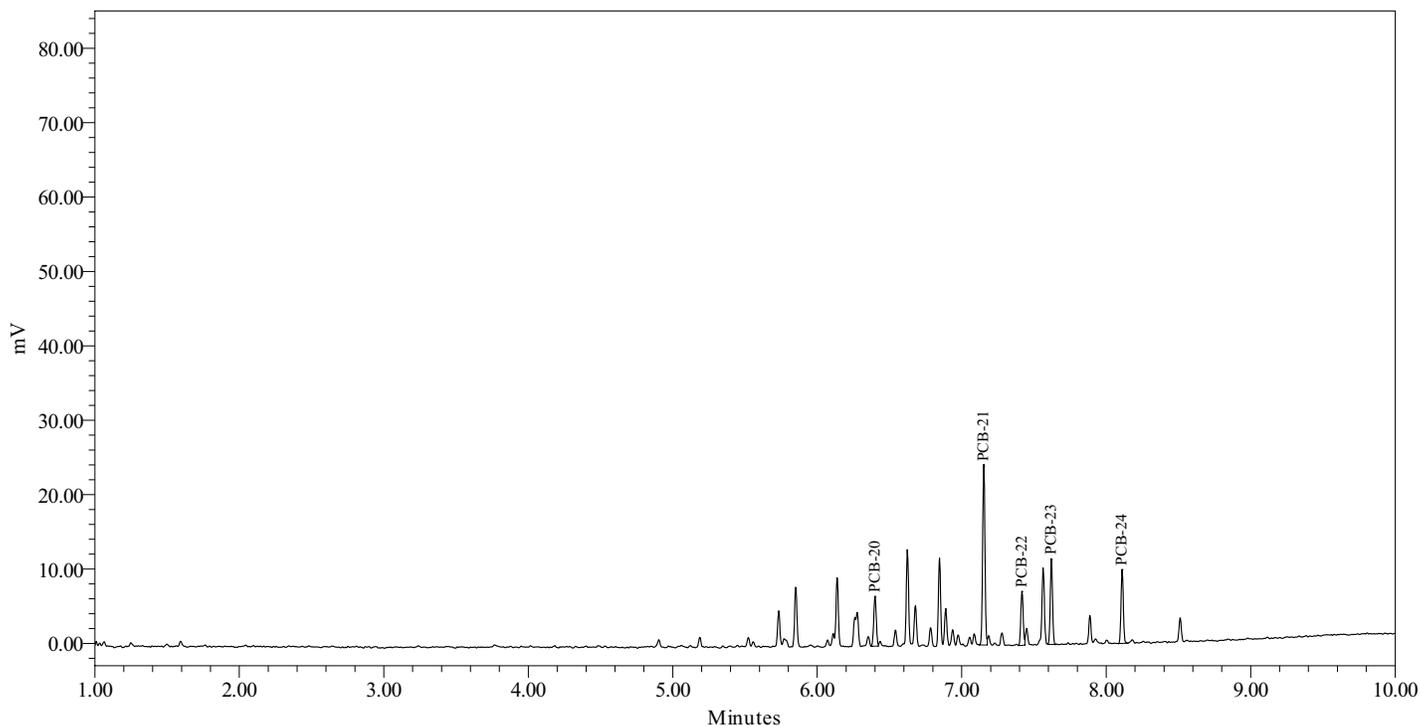
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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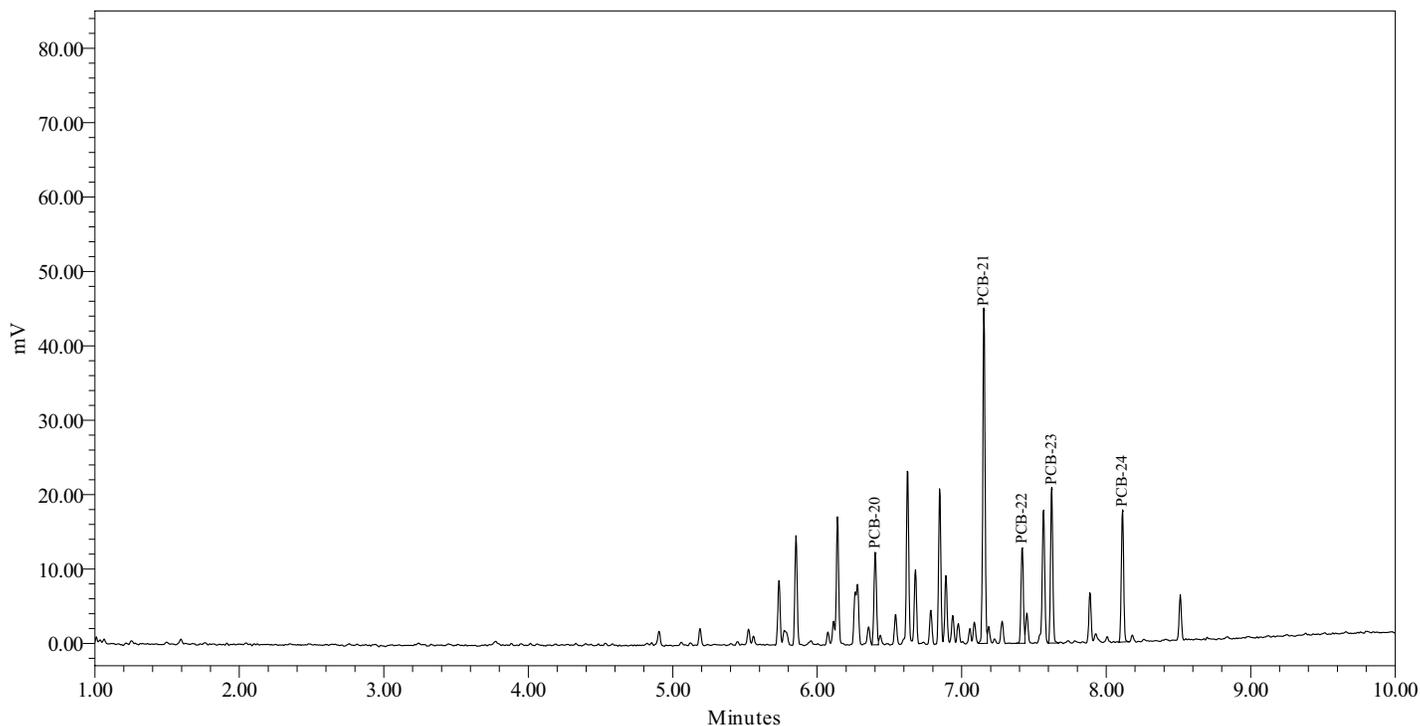
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

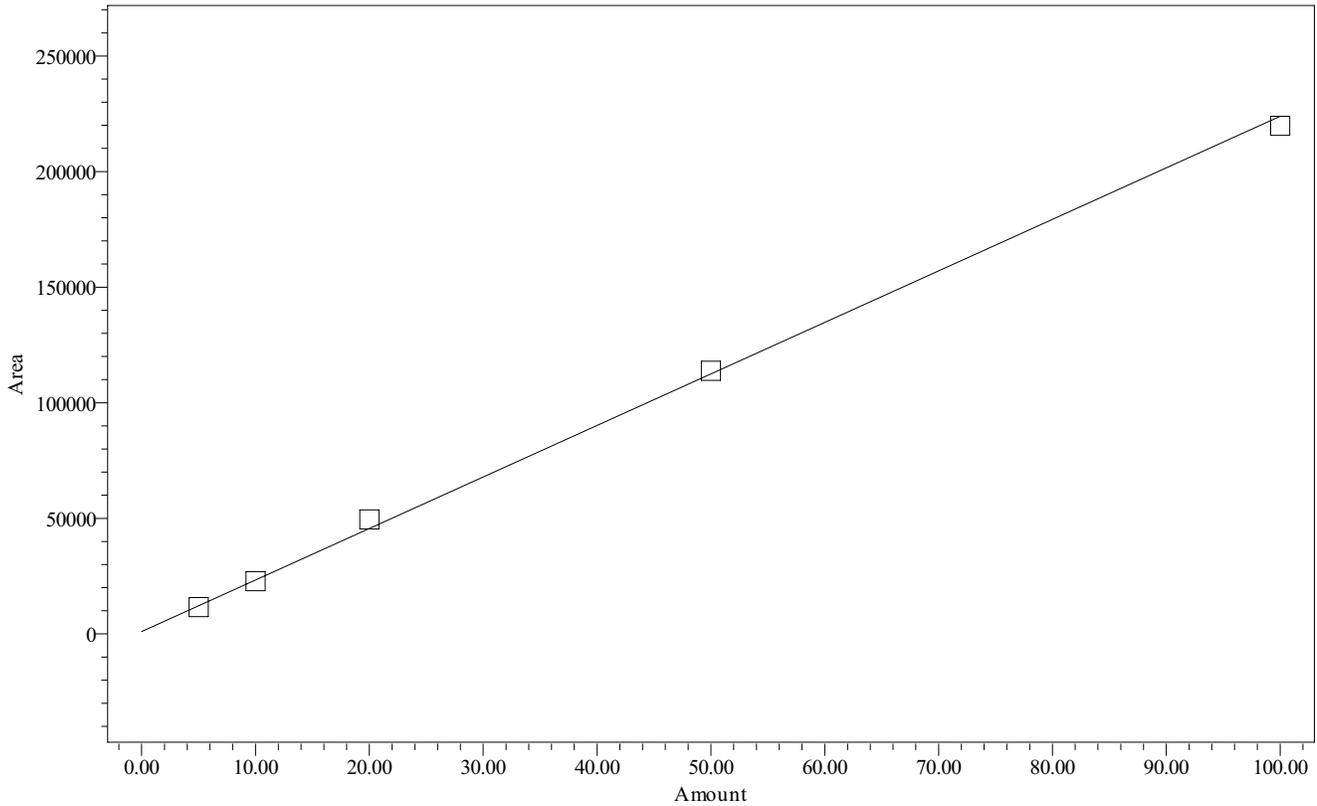
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

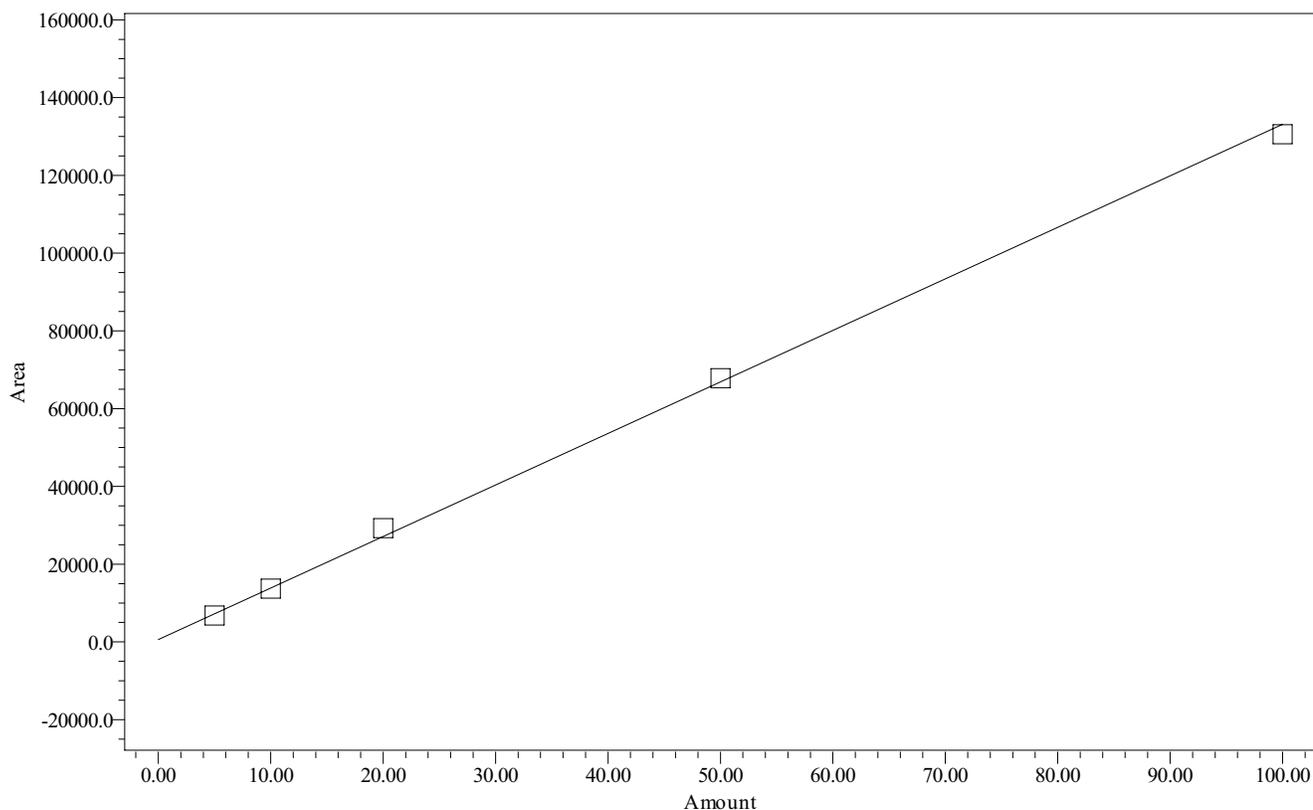
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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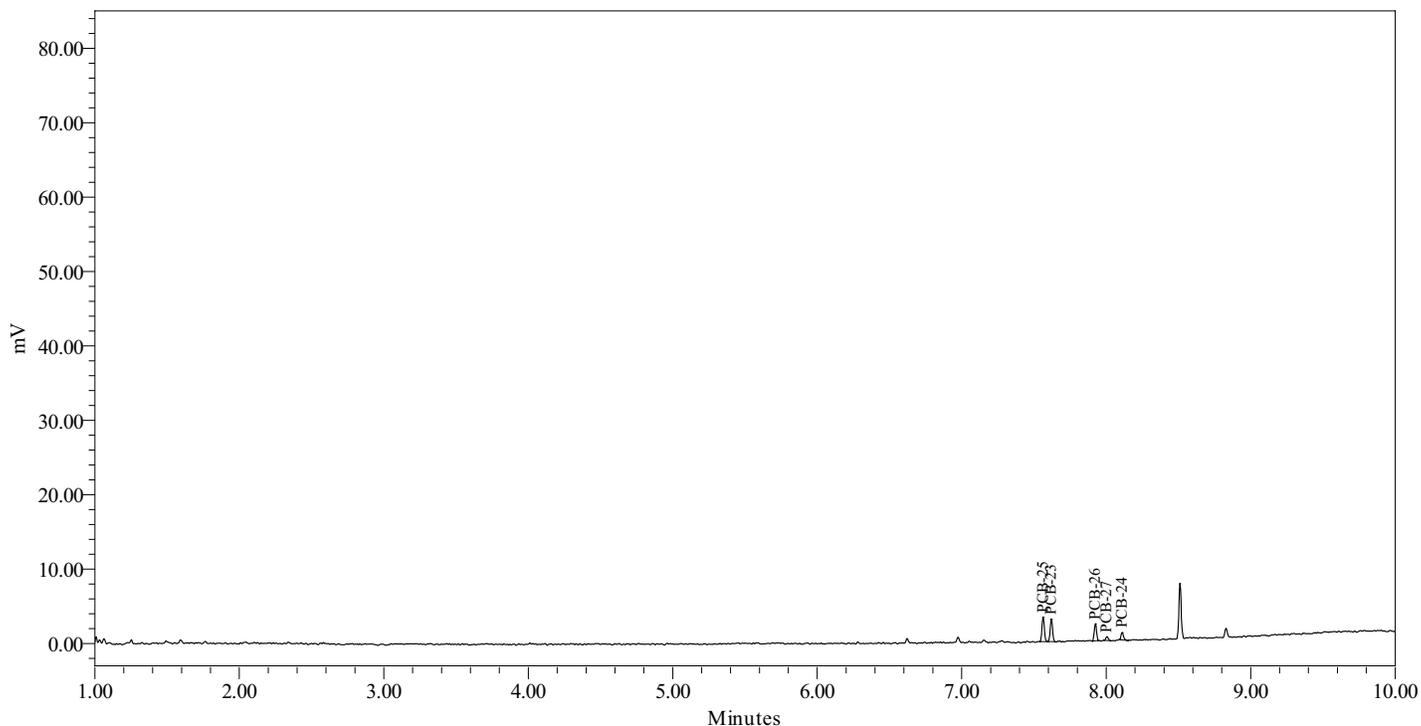
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 3694          |
| 2 PCB-23  | 7.621          | Vb               | 3546          |
| 3 PCB-26  | 7.926          | bb               | 2543          |
| 4 PCB-27  | 8.005          | bb               | 574           |
| 5 PCB-24  | 8.110          | bb               | 1194          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 4741                |                      |
| 2 A1260-20    | 4741                |                      |
| 3 A1262       | 4741                |                      |
| 4 A1268       | 11551               | 5.000                |
| 5 A1268-23/24 | 6811                | 5.000                |



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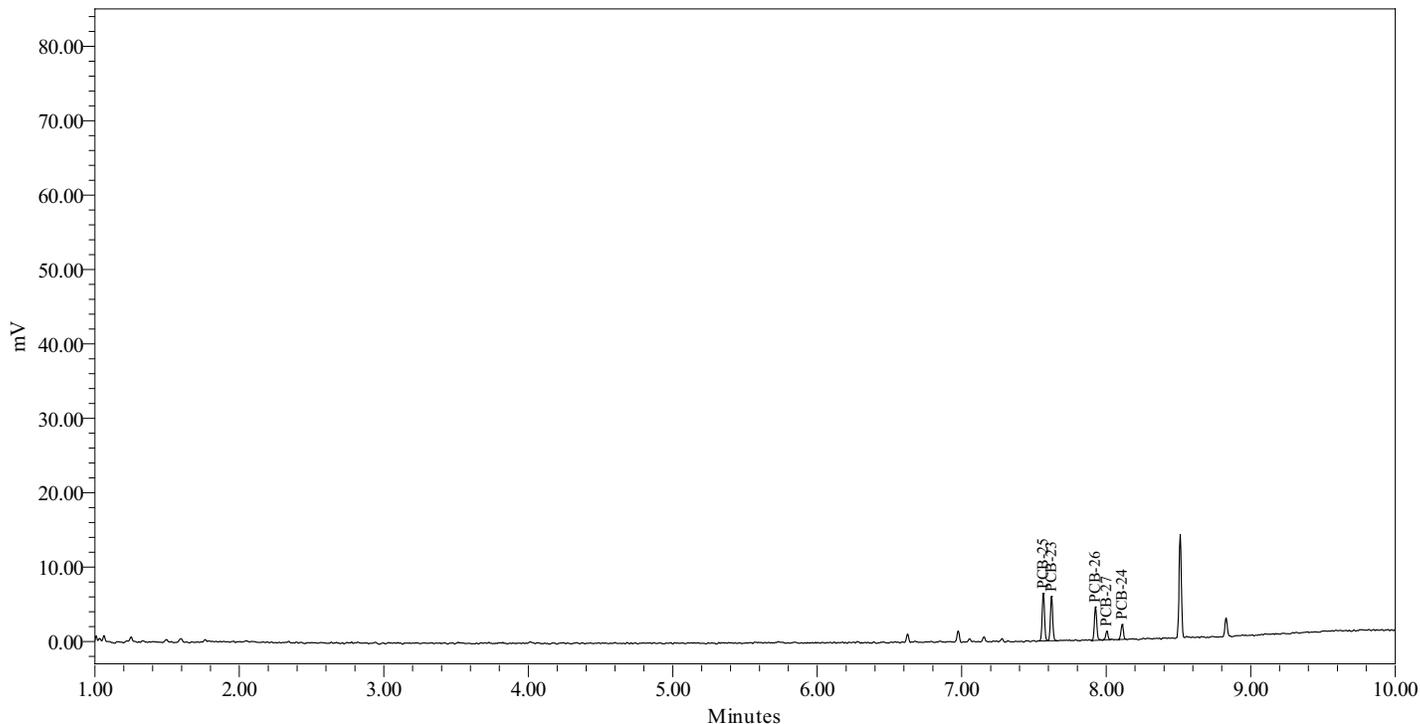
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.565          | bV               | 7178          |
| 2 | PCB-23    | 7.622          | Vb               | 6734          |
| 3 | PCB-26    | 7.926          | bB               | 5273          |
| 4 | PCB-27    | 8.004          | Bb               | 1257          |
| 5 | PCB-24    | 8.111          | bb               | 2332          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 9066                |                      |
| 2 | A1260-20    | 9066                |                      |
| 3 | A1262       | 9066                |                      |
| 4 | A1268       | 22774               | 10.000               |
| 5 | A1268-23/24 | 13708               | 10.000               |



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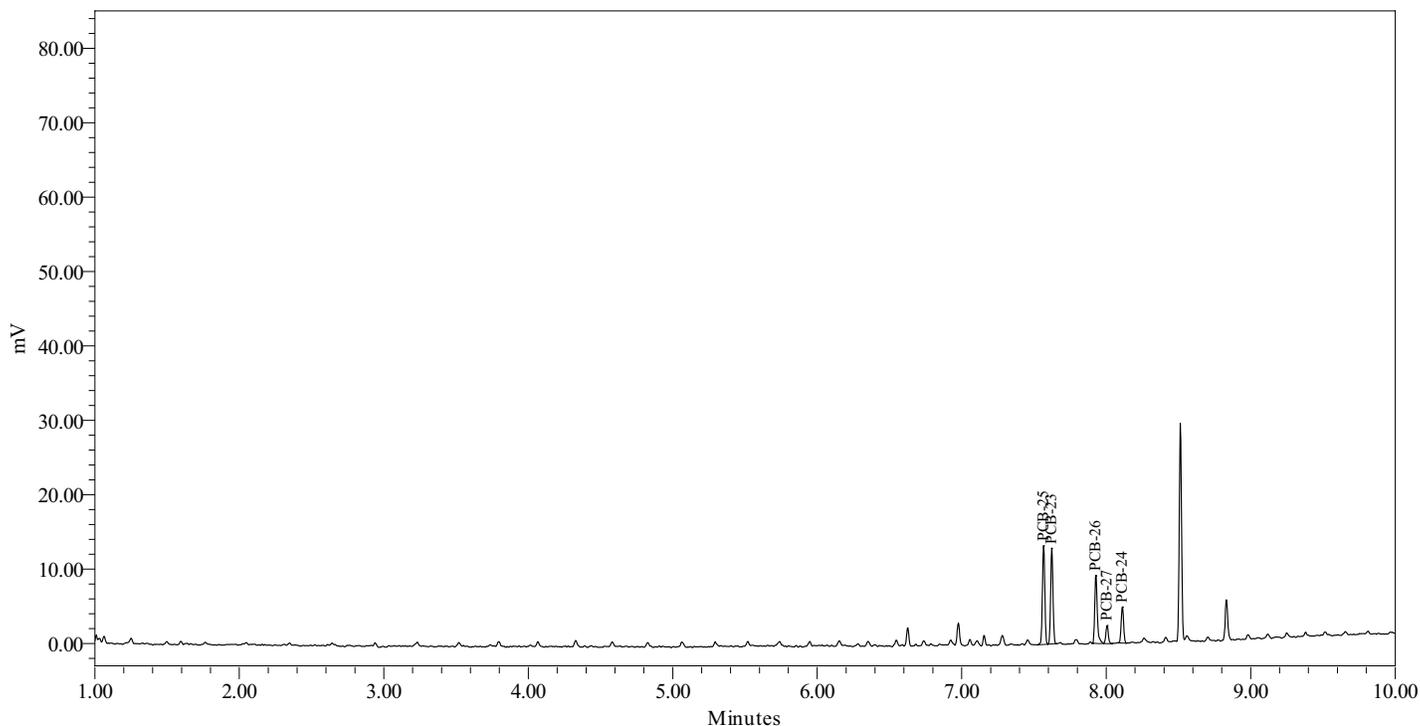
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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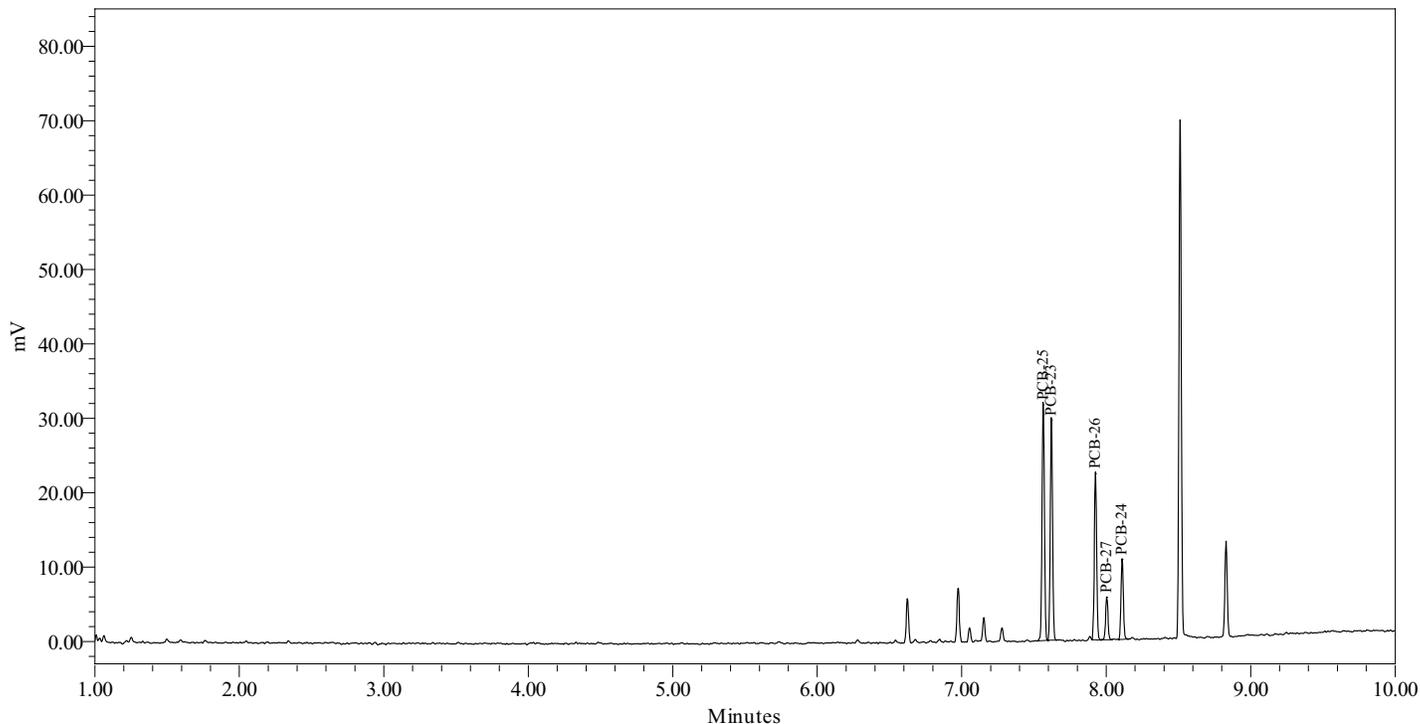
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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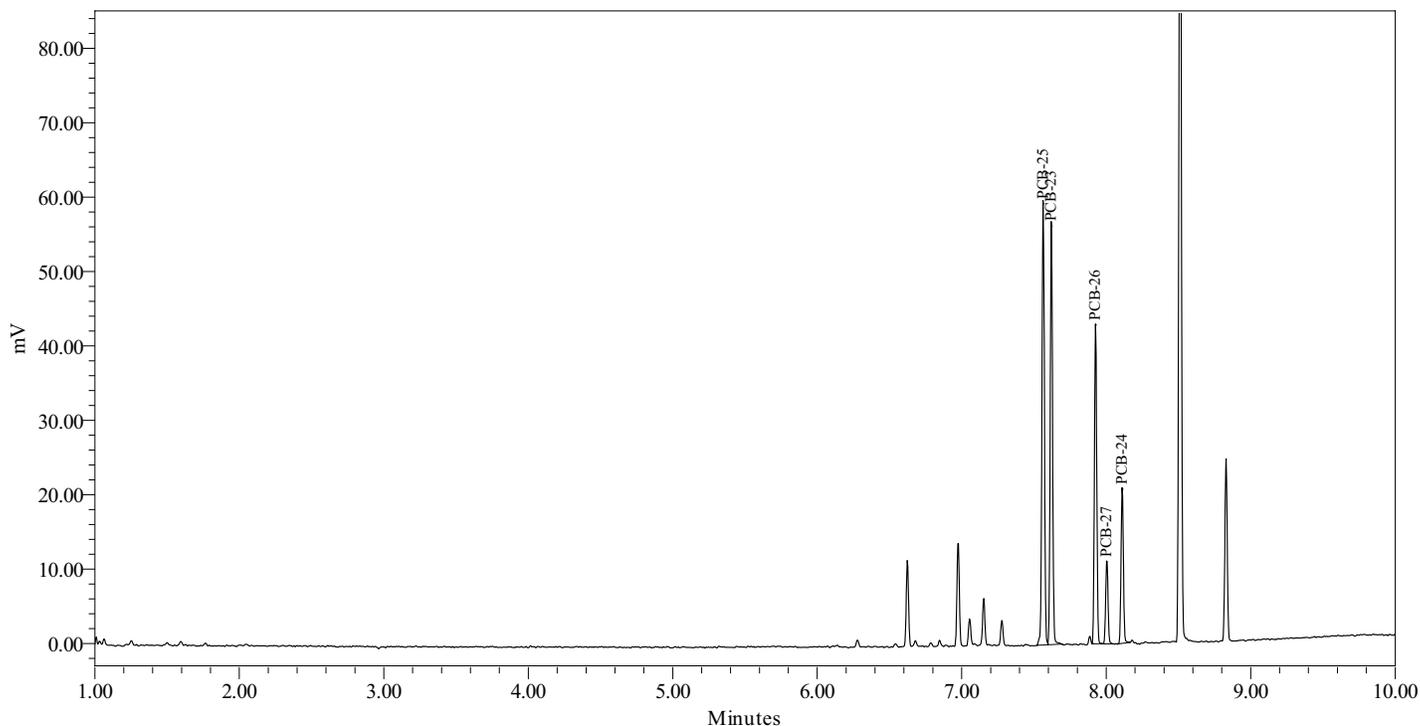
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



12

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060109

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1232 | GC28F-1633-14 | CS320604A     | CCV        | 48.8                | 50                 | -2.50              |   | 06/04/2015 15:15:47  |
| Aroclor 1242 | GC28F-1633-22 | CS420604A     | CCV        | 57.3                | 50                 | 14.6               |   | 06/04/2015 18:03:19  |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV        | 52.3                | 50                 | 4.54               |   | 06/04/2015 20:31:19  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060109

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060109

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060109

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1232 | GC28F-1633-14 | CS320604A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320604A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS320604A     | CCV         | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320604A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320604A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1633-22 | CS420604A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420604A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420604A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420604A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420604A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1254 | GC28F-1633-30 | CS540604A     | CCV         | 1    | 5.17 | 5.11      | 5.27 |
|              |               | CS540604A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540604A     | CCV         | 3    | 5.54 | 5.48      | 5.64 |
|              |               | CS540604A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540604A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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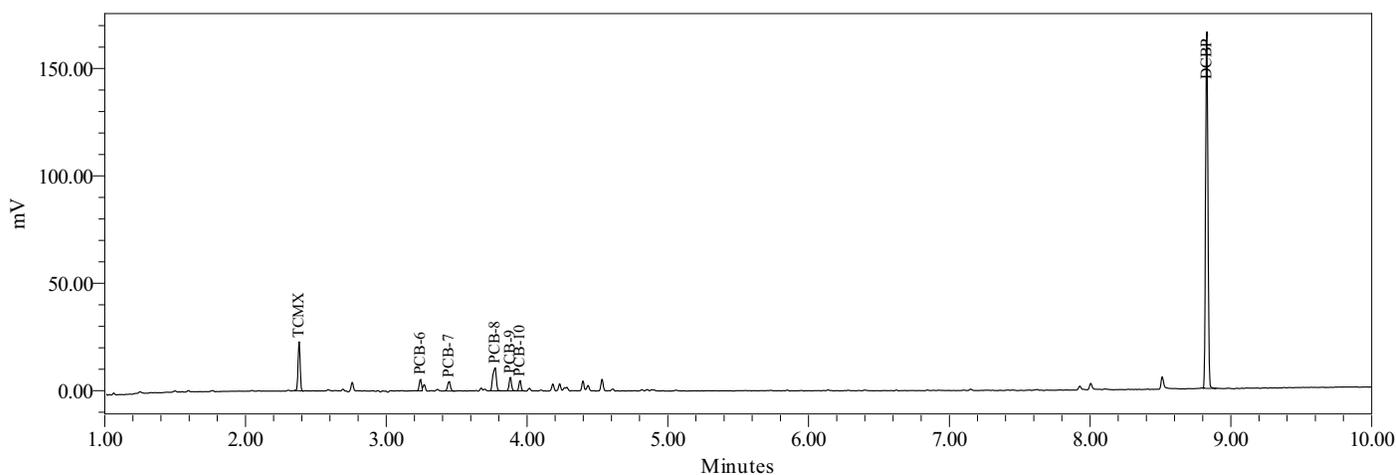
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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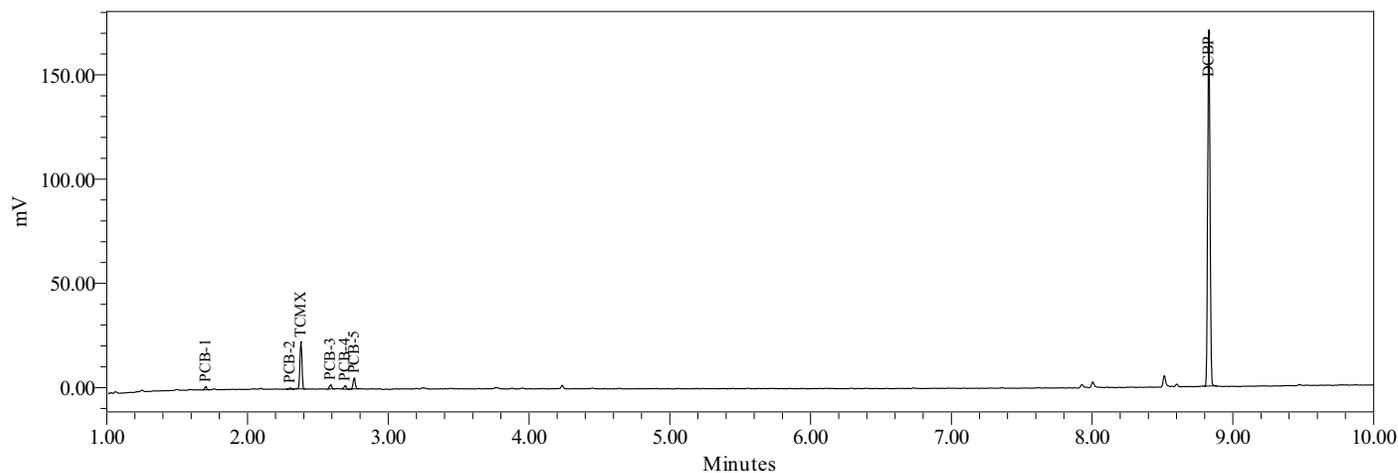
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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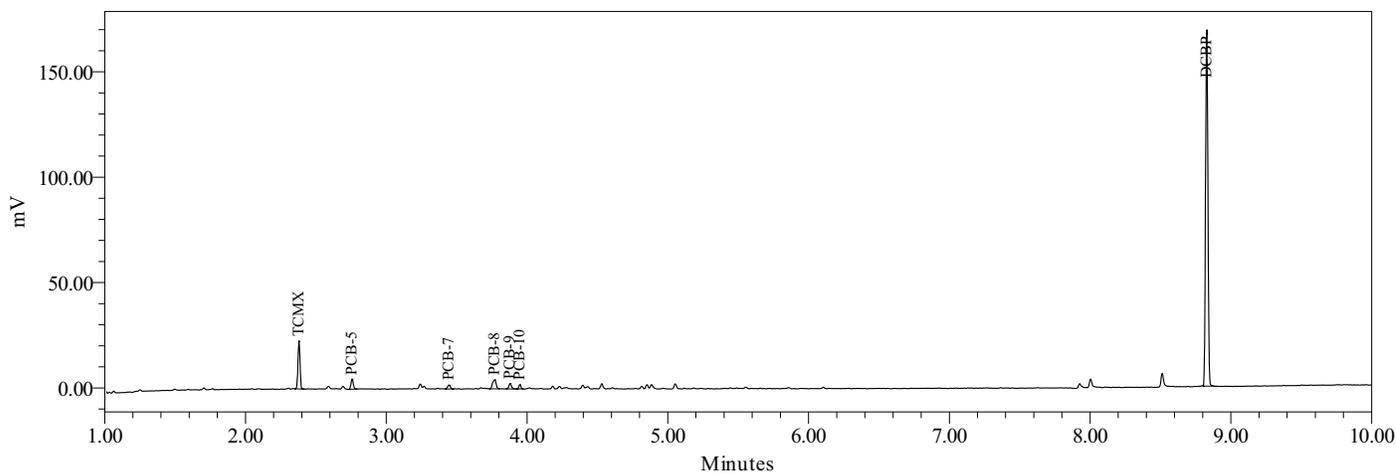
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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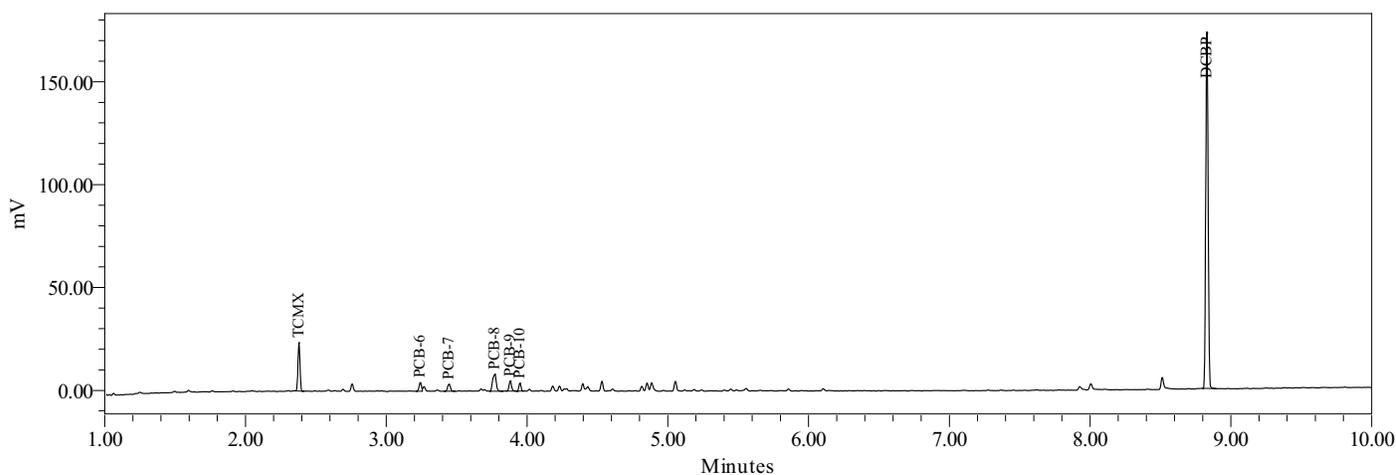
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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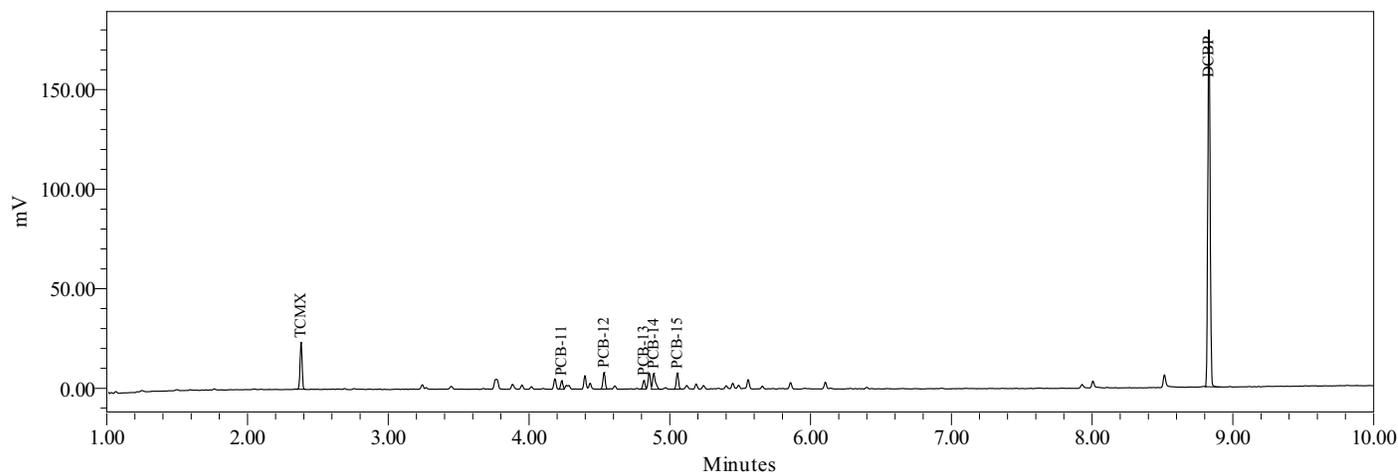
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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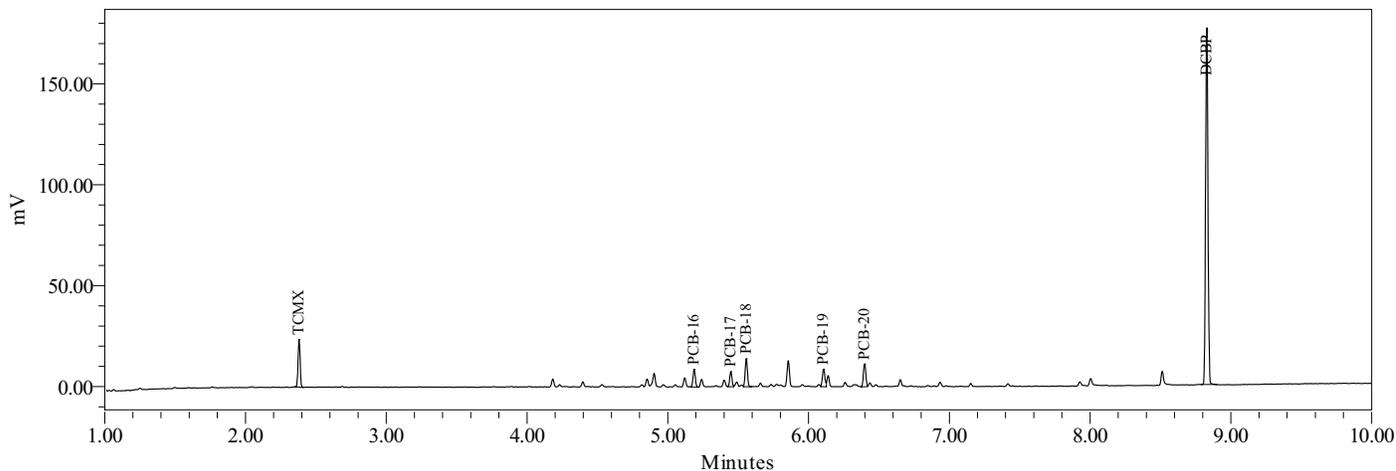
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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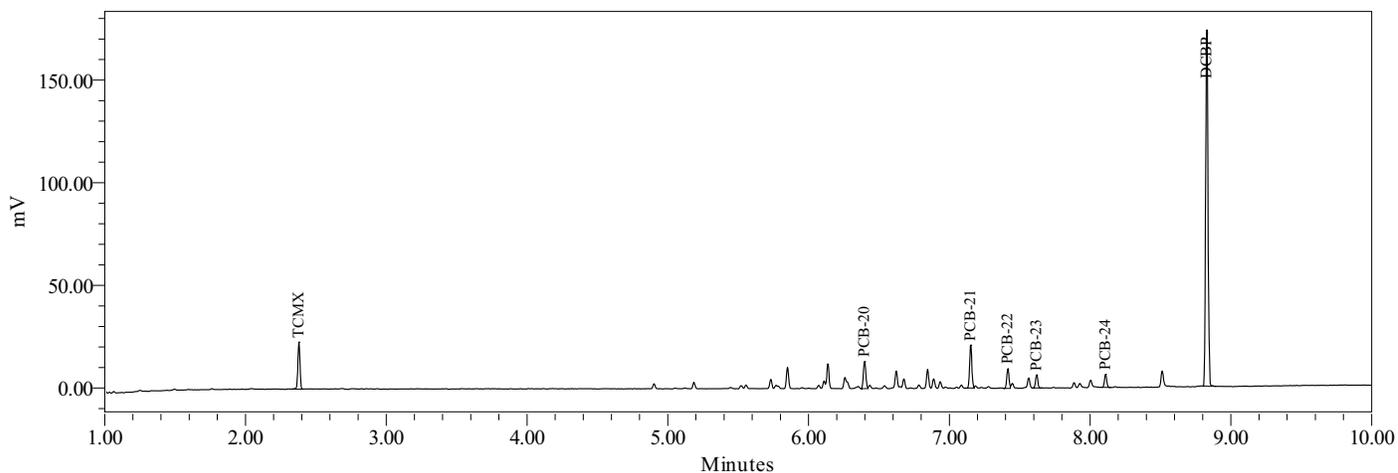
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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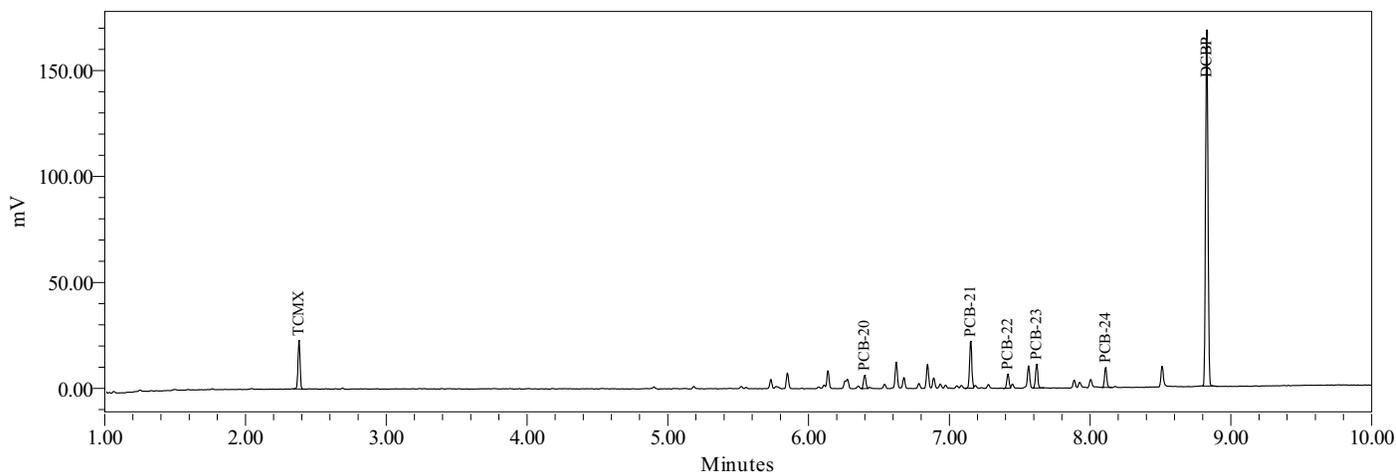
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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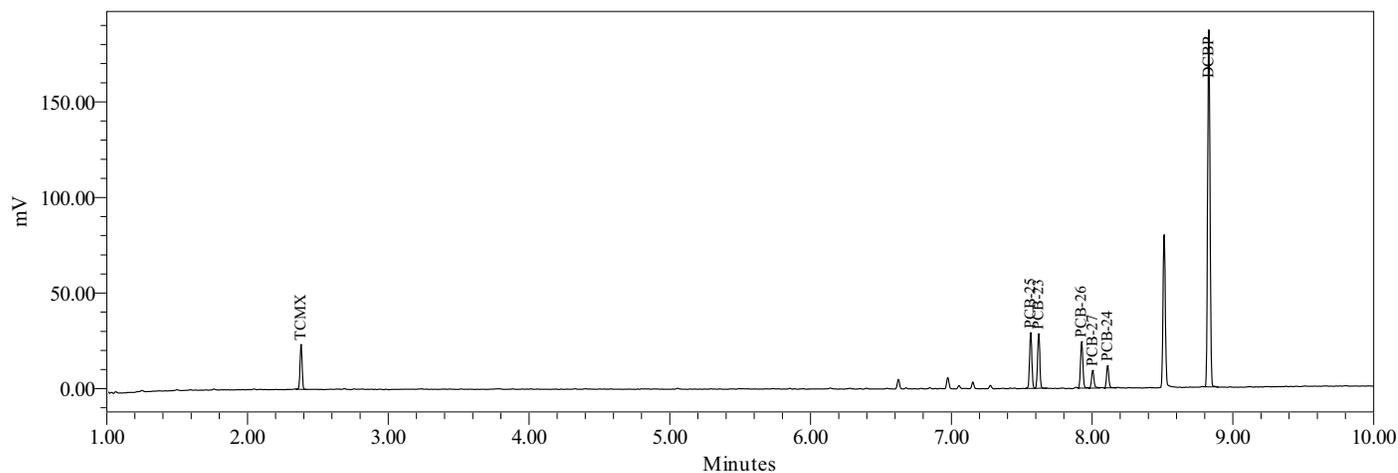
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |

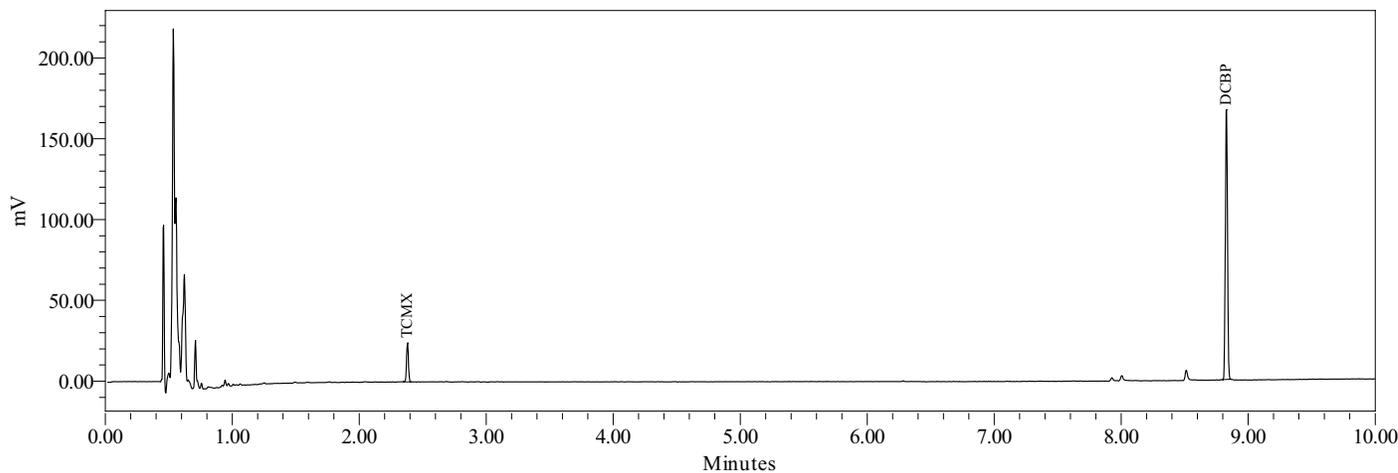


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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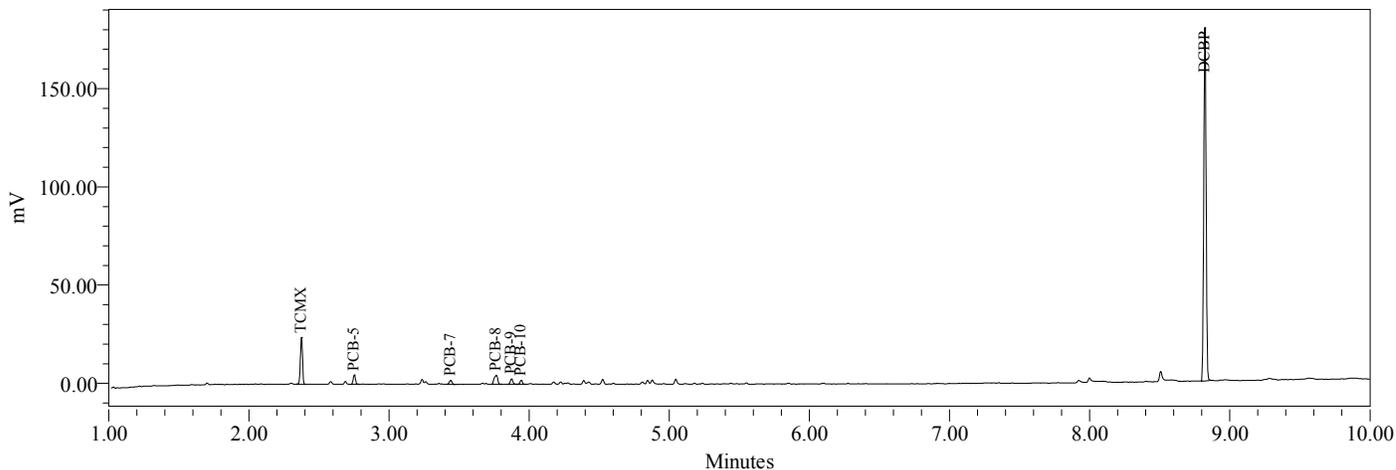
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS320604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 3:15:47 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 3:28:28 PM EDT     |
| Sample Set Name:   | GC28F_060415b           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:23:07 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-14 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.375          | bb               | 25397         | 5.210                | 104.2       |             |
| 2 PCB-5   | 2.752          | bb               | 5332          |                      |             |             |
| 3 PCB-7   | 3.439          | bb               | 2584          |                      |             |             |
| 4 PCB-8   | 3.765          | bb               | 7724          |                      |             |             |
| 5 PCB-9   | 3.874          | bB               | 3347          |                      |             |             |
| 6 PCB-10  | 3.943          | Bb               | 2282          |                      |             |             |
| 7 DCBP    | 8.823          | bb               | 205649        | 50.389               |             | 100.8       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 15938               | 18.777               | -62.45              |        |      |
| 2 A1221     | 5332                | 21.250               | -57.50              |        |      |
| 3 A1221-2   | 5332                | 22.901               | -54.20              |        |      |
| 4 A1232     | 21269               | 48.752               | -2.50               | X      |      |
| 5 A1232-8/9 | 10198               | 49.583               | -0.83               |        |      |
| 6 A1242     | 15938               | 24.061               | -51.88              |        |      |



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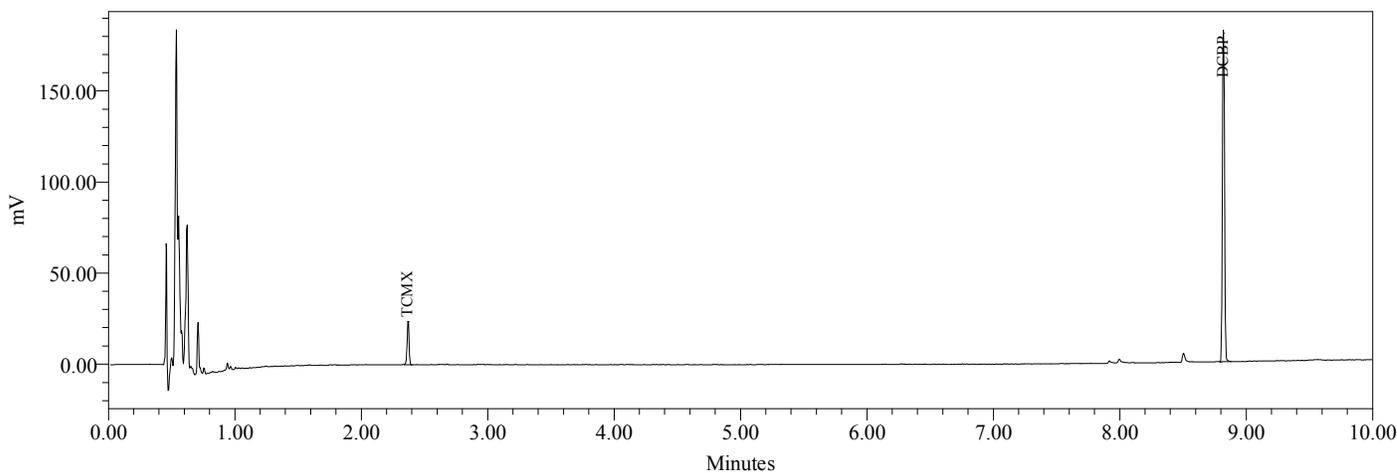
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|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | 150604B05               | Sample Amount:  | 1                           |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 3:29:47 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 3:46:59 PM EDT     |
| Sample Set Name:   | GC28F_060415b           | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:19:35 PM US/Eastern       |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1633-15 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | VB               | 25555         | 5.243                | 104.85746 |           |
| 2 | DCBP      | 8.821          | Bb               | 214923        | 52.815               |           | 105.62938 |



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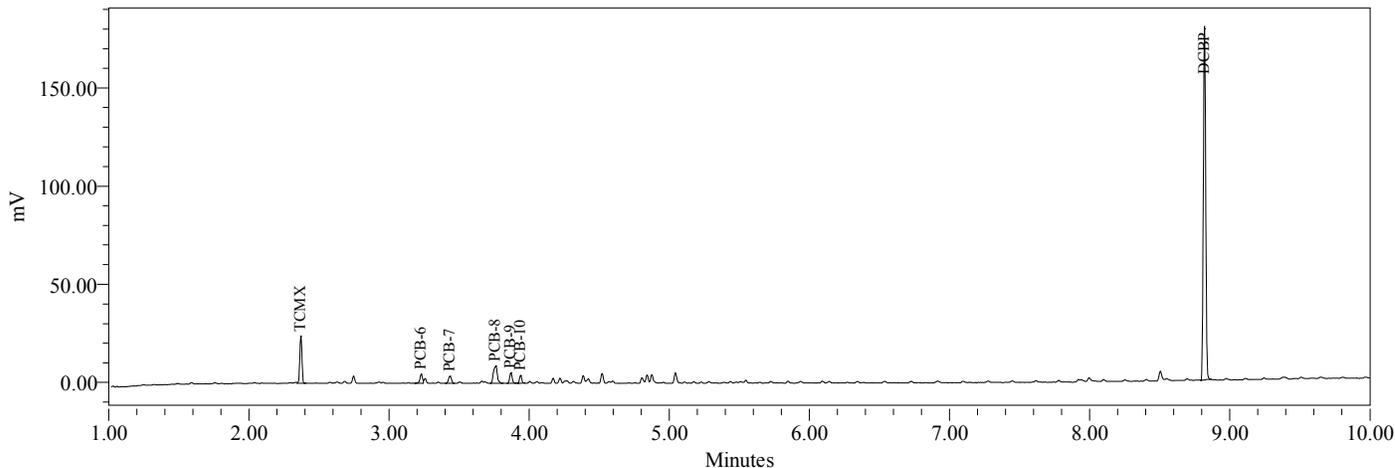
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS420604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 6:03:19 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 6:25:37 PM EDT     |
| Sample Set Name:   | GC28F_W_060415          | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:23:01 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-22 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | Vb               | 25514         | 5.234                | 104.7       |             |
| 2 PCB-6   | 3.230          | bV               | 5784          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 5104          |                      |             |             |
| 4 PCB-8   | 3.760          | bb               | 16472         |                      |             |             |
| 5 PCB-9   | 3.870          | bV               | 6321          |                      |             |             |
| 6 PCB-10  | 3.939          | Vb               | 4126          |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 207359        | 50.836               |             | 101.7       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 37807               | 44.790               | -10.42              |        |      |
| 2 A1232     | 32023               | 73.405               | 46.81               |        |      |
| 3 A1232-8/9 | 9229                | 44.829               | -10.34              |        |      |
| 4 A1242     | 37807               | 57.322               | 14.64               | X      |      |



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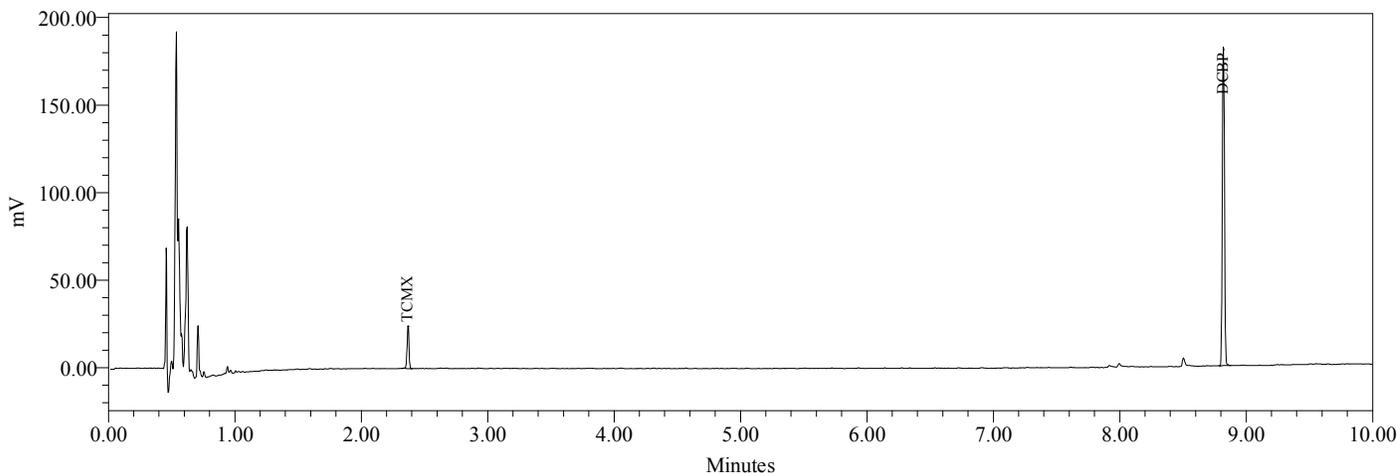
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Sample Name: 150604B08 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/4/2015 6:17:21 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/4/2015 6:29:36 PM EDT  
Sample Set Name: GC28F\_W\_060415 User Name: Kudakwashe Chinhoyi (KudaC)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/4/2015  
Run Time: 10.0 Minutes Current Time: 9:19:29 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1633-23 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25784         | 5.291                | 105.81482 |           |
| 2 DCBP    | 8.820          | bb               | 215968        | 53.088               |           | 106.17616 |



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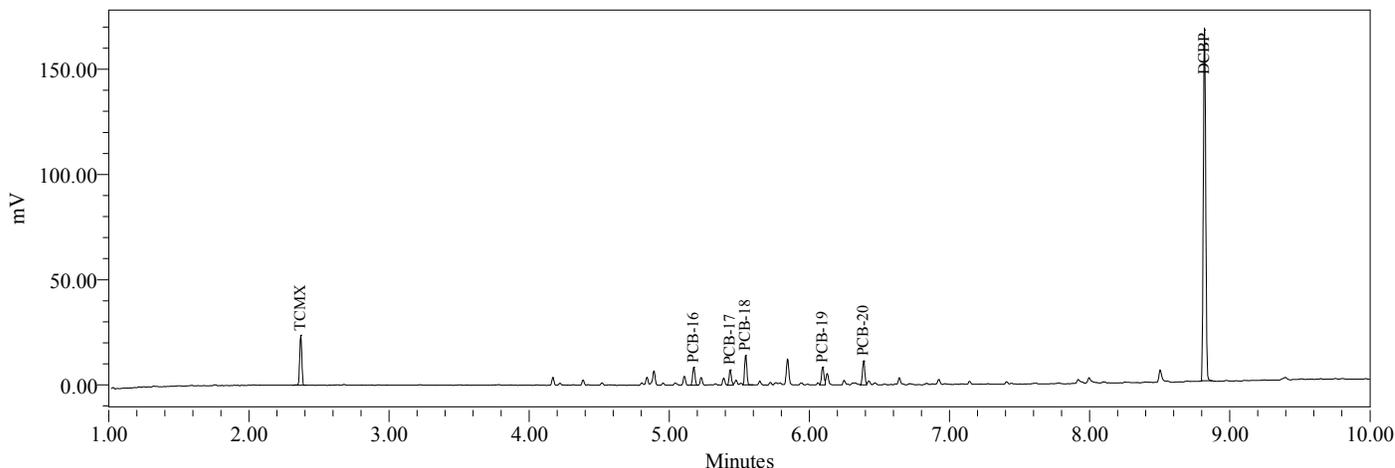
|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | CS540604A               | Sample Amount:  | 1                           |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 8:31:19 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 8:45:10 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:22:56 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1633-30 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.370          | bb               | 25248         | 5.178                | 103.6       |             |
| 2 PCB-16  | 5.175          | bb               | 9730          |                      |             |             |
| 3 PCB-17  | 5.435          | VV               | 8465          |                      |             |             |
| 4 PCB-18  | 5.545          | Vb               | 15715         |                      |             |             |
| 5 PCB-19  | 6.096          | VV               | 10416         |                      |             |             |
| 6 PCB-20  | 6.387          | bV               | 13511         |                      |             |             |
| 7 DCBP    | 8.820          | bb               | 194901        | 47.577               |             | 95.2        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 57837               | 52.270               | 4.54                | X      |      |
| 2 A1254-17/18 | 33657               | 52.276               | 4.55                |        |      |
| 3 A1254-19/20 | 33909               | 52.339               | 4.68                |        |      |
| 4 A1254-20    | 44326               | 52.062               | 4.12                |        |      |
| 5 A1260       | 13511               | 10.963               | -78.07              |        |      |
| 6 A1260-23/24 | 13511               | 14.002               | -72.00              |        |      |
| 7 A1262       | 13511               | 9.945                | -80.11              |        |      |



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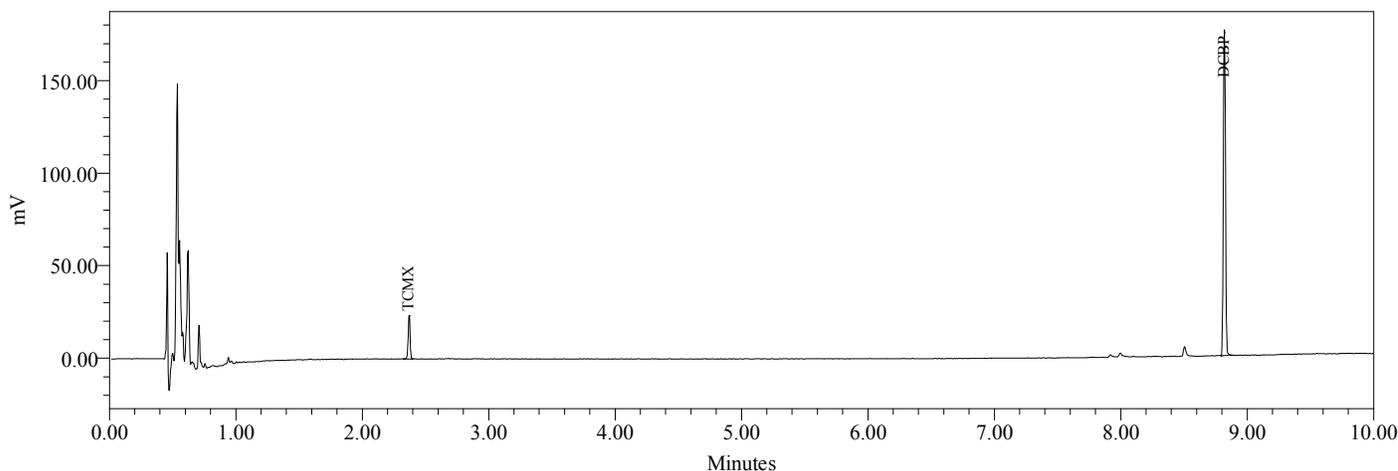
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|                    |                         |                 |                             |
|--------------------|-------------------------|-----------------|-----------------------------|
| Sample Name:       | 150604B11               | Sample Amount:  | 1                           |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                           |
| Date Acquired:     | 6/4/2015 8:45:18 PM EDT | Extract Volume: | 1                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/4/2015 8:56:32 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:      | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:19:23 PM US/Eastern       |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1633-31 [m]           |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 25024         | 5.132                | 102.63042 |           |
| 2 DCBP    | 8.820          | bb               | 207479        | 50.867               |           | 101.73474 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060109</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-07RR1</u>         |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11838BRR1</u> |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-28</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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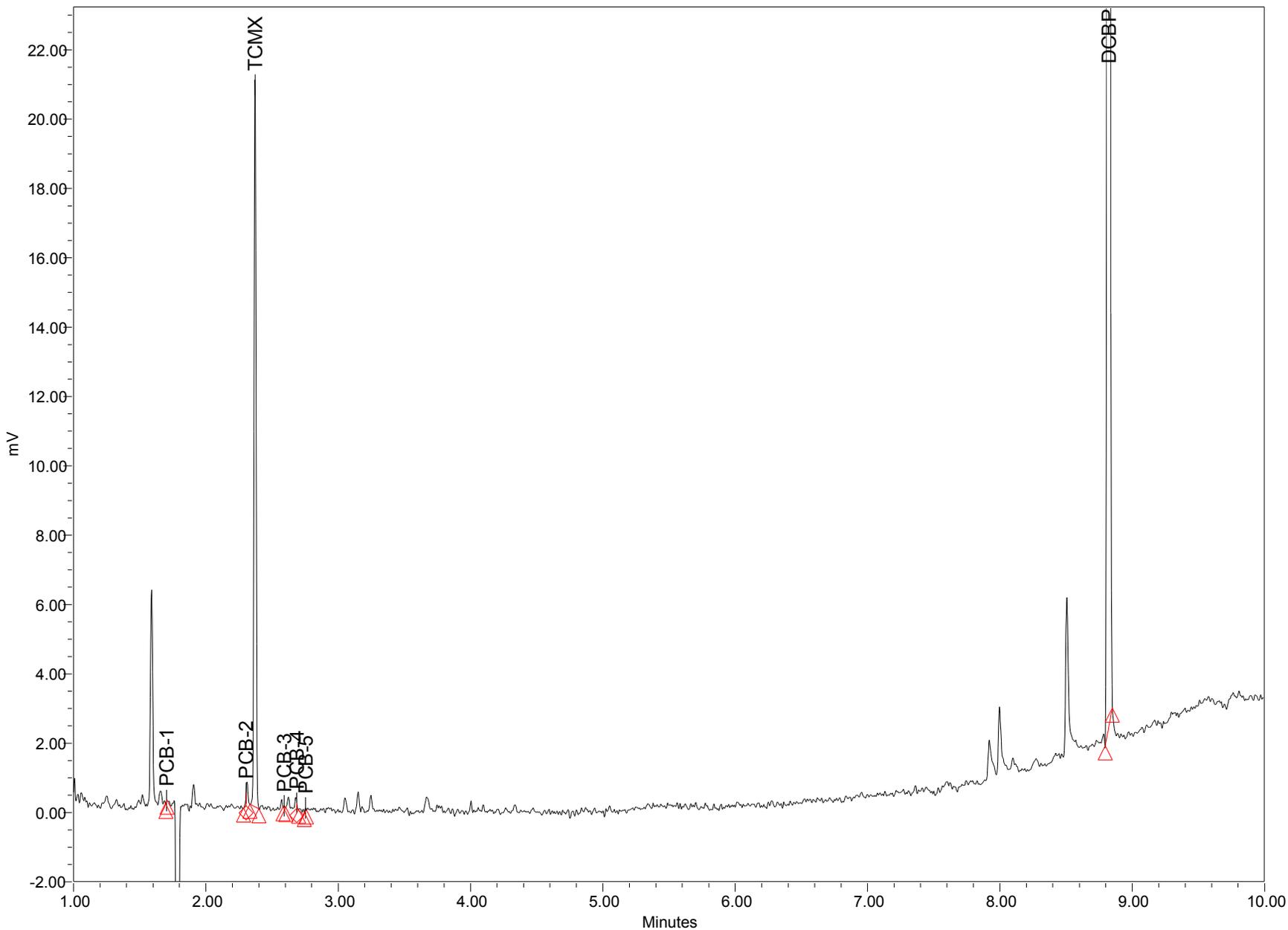
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838BRR1             | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 8:03:30 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:54:49 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:43 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-28 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | PCB-1     | 1.703          | bb               | 12            |                      |             |             |
| 2 | PCB-2     | 2.303          | bv               | 101           |                      |             |             |
| 3 | TCMX      | 2.371          | bb               | 22160         | 4.532                | 90.6        |             |
| 4 | PCB-3     | 2.592          | bb               | 20            |                      |             |             |
| 5 | PCB-4     | 2.687          | vb               | 31            |                      |             |             |
| 6 | PCB-5     | 2.752          | bb               | 53            |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 204260        | 50.025               |             | 100         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1221      | 217.8190            | 0.930                | 0.00465     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221-2    | 116.3673            | 1.104                | 0.00552     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1221-5    | 164.5471            | 1.725                | 0.00862     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1232      | 53.2718             | 0.112                | 0.00056     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232-8/9  | 53.2718             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11838BRR1; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060109</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-07RR1</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11838LRR1</u>   |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-29</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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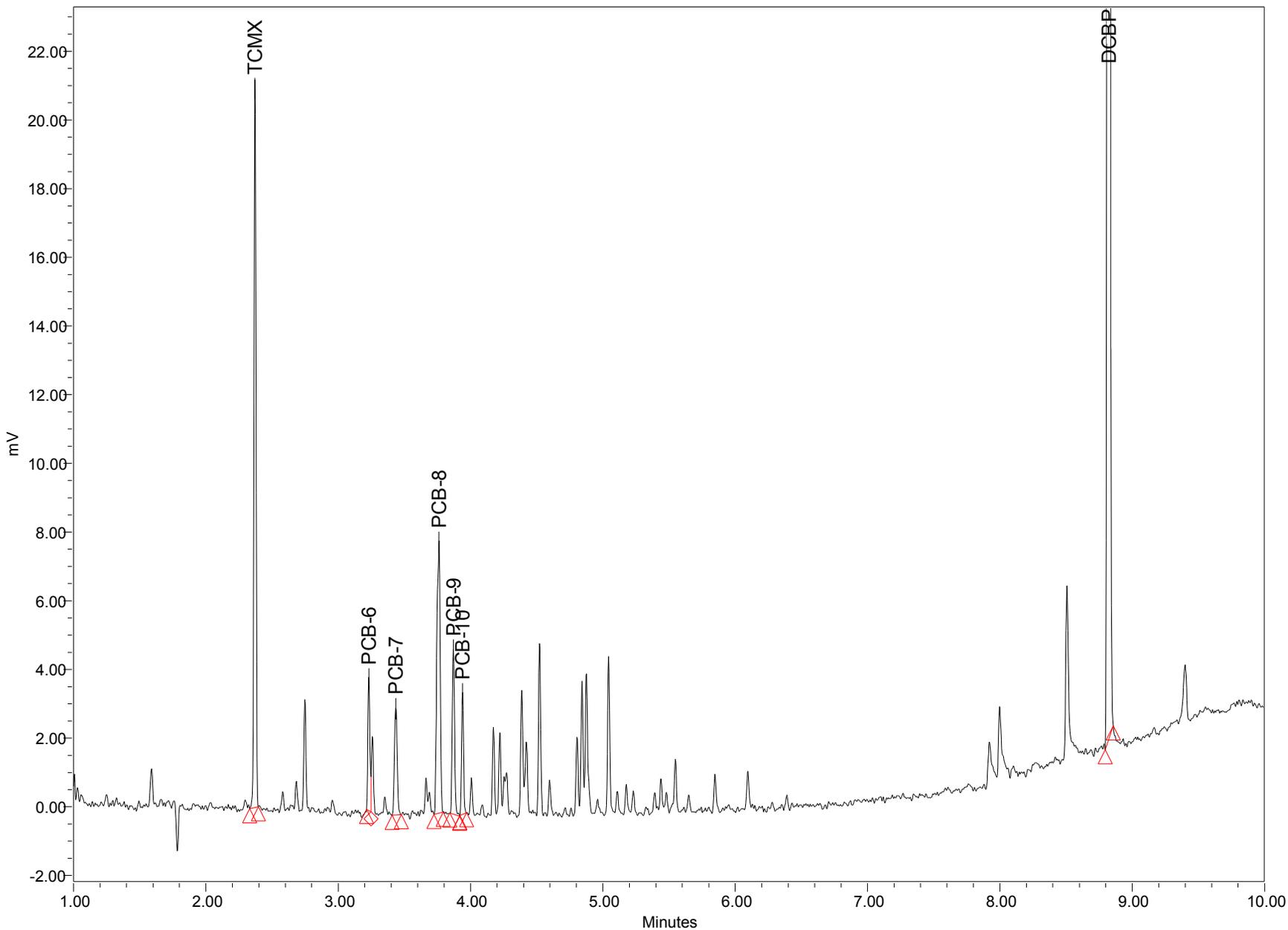
|                    |                         |                     |                             |
|--------------------|-------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838LRR1             | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 8:17:30 PM EDT | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/4/2015 8:30:30 PM EDT     |
| Sample Set Name:   | GC28F_W_060415B         | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:20:48 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1633-29 [m]           |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | bb               | 22340         | 4.570                | 91.4        |             |
| 2 | PCB-6     | 3.231          | bV               | 4213          |                      |             |             |
| 3 | PCB-7     | 3.435          | bb               | 4528          |                      |             |             |
| 4 | PCB-8     | 3.761          | bb               | 13926         |                      |             |             |
| 5 | PCB-9     | 3.870          | bB               | 5767          |                      |             |             |
| 6 | PCB-10    | 3.939          | Bb               | 3798          |                      |             |             |
| 7 | DCBP      | 8.822          | bb               | 204712        | 50.144               |             | 100         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32231.0512          | 38.158               | 0.19079     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 28018.4004          | 64.225               | 0.32112     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8325.4498           | 40.392               | 0.20196     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32231.0512          | 48.842               | 0.24421     | 0.0250   | 0.00873  | X      |      |



SampleName AS11838LRR1; Sample\_ID LAB CONTROL SPIKE

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |   |
|--|---|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060109</u>                     |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060109-02MS</u>                |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150604085226 MS</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11838M</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1633-19</u>           |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/04/2015</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/04/2015</u>           |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/04/2015</u>            |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                   |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                  |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.307                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.357                 |    |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                           |                     |                             |
|--------------------|---------------------------|---------------------|-----------------------------|
| Sample Name:       | AS11838M                  | Sample Amount (L) : | 1.0000                      |
| Sample ID:         | FRS-WAFA-T150604085226 MS | Dilution:           | 5                           |
| Date Acquired:     | 6/4/2015 5:21:27 PM EDT   | Extract Volume:     | 5                           |
| Project Name:      | GC28F_Jan_2015            | Date Processed:     | 6/4/2015 8:09:58 PM EDT     |
| Sample Set Name:   | GC28F_W_060415            | User Name:          | Kudakwashe Chinhoyi (KudaC) |
| Processing Method: | GC28F_LLCC_031215         | Current Date:       | 6/4/2015                    |
| Run Time:          | 10.0 Minutes              | Current Time:       | 9:20:27 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL         | LIMS File ID:       | GC28F-1633-19 [m]           |

**Peak Results**

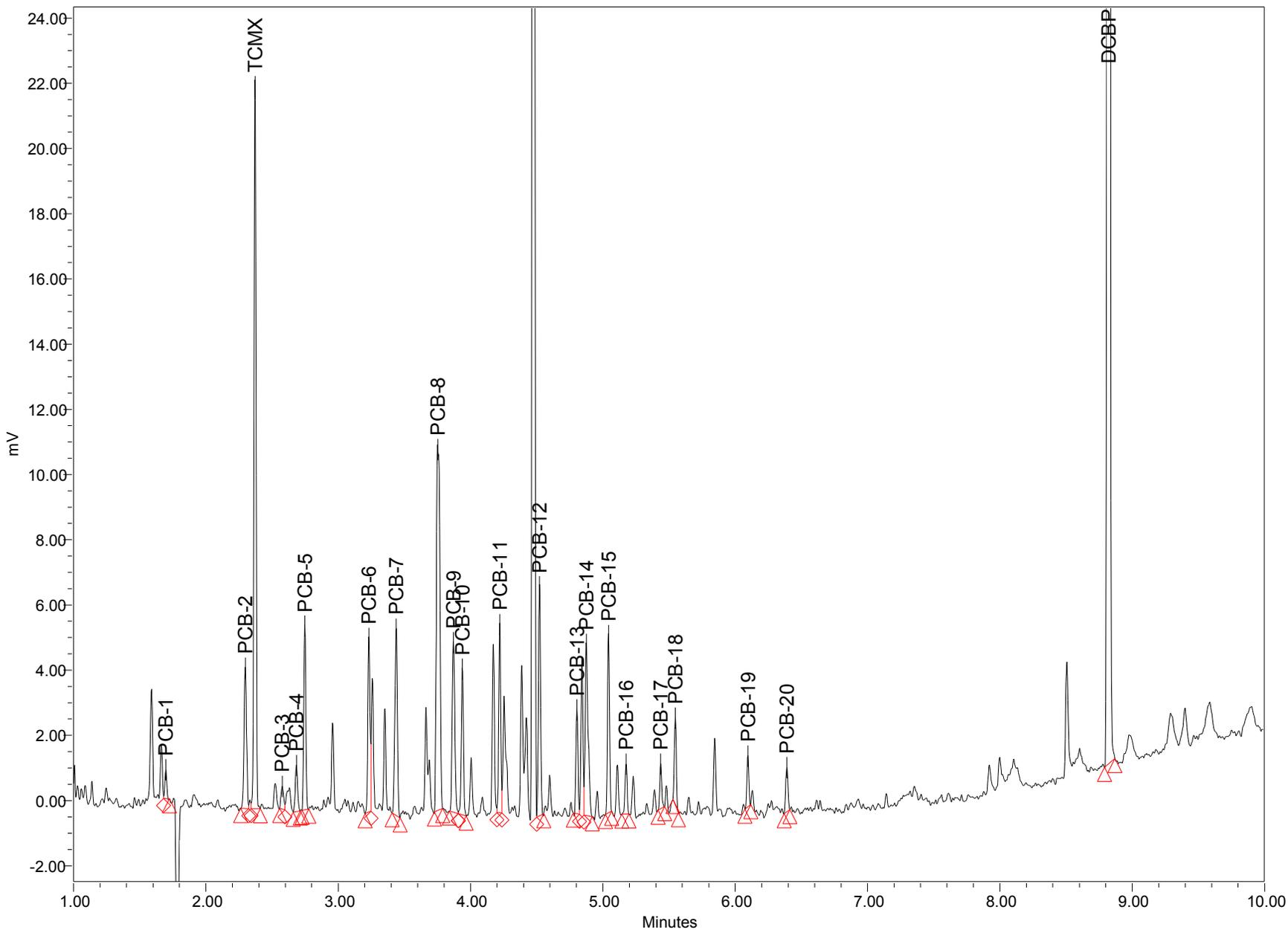
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | Vb               | 910           |                      |             |             |
| 2  | PCB-2     | 2.297          | bV               | 5778          |                      |             |             |
| 3  | TCMX      | 2.371          | Vb               | 23894         | 4.895                | 97.9        |             |
| 4  | PCB-3     | 2.577          | bV               | 986           |                      |             |             |
| 5  | PCB-4     | 2.684          | bB               | 1737          |                      |             |             |
| 6  | PCB-5     | 2.747          | Bb               | 6017          |                      |             |             |
| 7  | PCB-6     | 3.231          | bV               | 6269          |                      |             |             |
| 8  | PCB-7     | 3.438          | bb               | 7706          |                      |             |             |
| 9  | PCB-8     | 3.752          | bb               | 20854         |                      |             |             |
| 10 | PCB-9     | 3.870          | bV               | 7110          |                      |             |             |
| 11 | PCB-10    | 3.938          | Vb               | 5156          |                      |             |             |
| 12 | PCB-11    | 4.220          | VV               | 6142          |                      |             |             |
| 13 | PCB-12    | 4.521          | Vb               | 7833          |                      |             |             |
| 14 | PCB-13    | 4.804          | bV               | 3344          |                      |             |             |
| 15 | PCB-14    | 4.875          | Vb               | 8147          |                      |             |             |
| 16 | PCB-15    | 5.042          | bb               | 5825          |                      |             |             |
| 17 | PCB-16    | 5.175          | bb               | 1711          |                      |             |             |
| 18 | PCB-17    | 5.436          | bb               | 1434          |                      |             |             |
| 19 | PCB-18    | 5.547          | bb               | 2711          |                      |             |             |
| 20 | PCB-19    | 6.095          | bb               | 1633          |                      |             |             |
| 21 | PCB-20    | 6.390          | bb               | 1639          |                      |             |             |
| 22 | DCBP      | 8.821          | bb               | 187813        | 45.723               |             | 91.4        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 47094.2652          | 55.838               | 0.27919     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 15427.7240          | 61.369               | 0.30684     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 9649.5205           | 40.947               | 0.20473     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 9410.4741           | 75.000               | 0.37500     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 46842.7535          | 107.381             | 0.53691     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 18878.7526          | 92.195              | 0.46097     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 47094.2652          | 71.447              | 0.35724     | 0.0250   | 0.00873  | X      |      |
| 8  | A1248       | 31290.7588          | 41.823              | 0.20912     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 19323.4982          | 40.190              | 0.20095     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 17318.9833          | 48.327              | 0.24163     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 9127.5589           | 8.477               | 0.04238     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 4982.8339           | 8.034               | 0.04017     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 5856.0617           | 9.183               | 0.04592     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 7488.7071           | 9.066               | 0.04533     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 1638.8518           | 1.229               | 0.00614     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 1638.8518           | 2.090               | 0.01045     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 1638.8518           | 0.526               | 0.00263     |          |          | NR     |      |



SampleName AS11838M; Sample\_ID FRS-WAFA-T150604085226 MS

# CERTIFICATES OF ANALYSIS (PCB)



## Analytical Sample Results

Job Number: 15060109

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150604085101 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060109-01 (AS11837)     | <b>Percent Solid:</b> N/A                |

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1633-20 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 17:35 | KTC     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943         | EPA 3535A                           | 06/04/2015 14:12 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-20 |
| Aroclor 1221          | 11104-28-2 | 0.201         | 0.0250 | 1.00            | PB    | GC28F-1633-20 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-20 |
| Aroclor 1242          | 53469-21-9 | 0.0436        | 0.0250 | 1.00            | AD    | GC28F-1633-20 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-20 |
| Aroclor 1254          | 11097-69-1 | 0.0115        | 0.0250 | 1.00            | AF,J  | GC28F-1633-20 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1633-20 |
| Total PCB Amount > RL | 1336-36-3  | 0.2561        |        | 1.00            |       | GC28F-1633-20 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 92.9       | 70.0-130   |                | GC28F-1633-20 |
| Decachlorobiphenyl      | 2051-24-3 | 93.1       | 70.0-130   |                | GC28F-1633-20 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060109

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-WAFA-T150604085226  
**Lab Sample ID:** 15060109-02 (AS11838)

**Collection Date:** 06/04/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/04/2015 12:40  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1633-21 | NE273_04 (Quick TAT Aroclor Method) | 06/04/2015 17:49 | KTC     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30943         | EPA 3535A                           | 06/04/2015 14:12 | ER      | 960 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-21 |
| Aroclor 1221          | 11104-28-2 | <b>0.193</b>  | 0.0260 | 1.00            | PB    | GC28F-1633-21 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-21 |
| Aroclor 1242          | 53469-21-9 | <b>0.0747</b> | 0.0260 | 1.00            | AD    | GC28F-1633-21 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-21 |
| Aroclor 1254          | 11097-69-1 | <b>0.0180</b> | 0.0260 | 1.00            | AF,J  | GC28F-1633-21 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0260 | 1.00            | U     | GC28F-1633-21 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2857</b> |        | 1.00            |       | GC28F-1633-21 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 93.9       | 70.0-130   |                | GC28F-1633-21 |
| Decachlorobiphenyl      | 2051-24-3 | 91.5       | 70.0-130   |                | GC28F-1633-21 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060109

ELAP ID No: 11078

Duplicate Lab ID No: AS11838D

Date Analyzed: 6/4/2015

Original Lab ID No: AS11838

| TEST PARAMETER         | ORIGINAL SAMPLE<br>RESULT<br>(mg/L) | DUPLICATE SAMPLE<br>RESULT<br>(mg/L) | RELATIVE <sup>1</sup><br>PERCENT<br>DIFFERENCE (RPD) # |
|------------------------|-------------------------------------|--------------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 43.2                                | 51.2                                 | 16.9   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2112 Date In Oven: 06/04/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060115B9P11 Date Out Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29170   | BLANK-68       | AS11365B      | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRQ        | 1000             | 0.1131         | 0.1131       | 0                 |                    |       |      |          |
| 29171   | LCS-68         | AS11365L      | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRR        | 250              | 0.1128         | 0.1379       | 100               | 100                | 100   |      |          |
| 29167   | 15060034-01    | AS11365       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRS        | 1060             | 0.1135         | 0.1138       | 0.283             |                    |       |      |          |
| 29172   | 15060034-01DUP | AS11365D      | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRT        | 1060             | 0.1112         | 0.1116       | 0.377             |                    |       | 28.6 |          |
| 29168   | 15060034-04    | AS11368       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRU        | 1040             | 0.1127         | 0.1128       | 0.096             |                    |       |      |          |
| 29169   | 15060034-05    | AS11369       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRV        | 1040             | 0.1140         | 0.1167       | 2.6               |                    |       |      |          |
| 29173   | 15060107-02    | AS11828       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WRW        | 1060             | 0.1136         | 0.1238       | 9.62              |                    |       |      |          |
| 29174   | 15060107-03    | AS11829       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WS6        | 1020             | 0.1136         | 0.1166       | 2.94              |                    |       |      |          |
| 29175   | 15060107-04    | AS11830       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WS5        | 960              | 0.1124         | 0.1140       | 1.67              |                    |       |      |          |
| 29176   | 15060107-05    | AS11831       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQT        | 980              | 0.1117         | 0.1137       | 2.04              |                    |       |      |          |
| 29177   | 15060107-06    | AS11832       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQU        | 1000             | 0.1124         | 0.1160       | 3.6               |                    |       |      |          |
| 29178   | 15060107-07    | AS11833       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQV        | 1000             | 0.1123         | 0.1195       | 7.2               |                    |       |      |          |
| 29179   | 15060109-01    | AS11837       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQW        | 780              | 0.1113         | 0.1262       | 19.1              |                    |       |      |          |
| 29180   | 15060109-02    | AS11838       | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQX        | 560              | 0.1253         | 0.1495       | 43.2              |                    |       |      |          |
| 29181   | 15060109-02DUP | AS11838D      | L      | <input checked="" type="checkbox"/> | 14:59        | 10:35         | WQY        | 500              | 0.1179         | 0.1435       | 51.2              |                    |       | 16.9 |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/8/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060109

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150604085101 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060109-01 (AS11837)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 19.1          | 1.28 | 1.28            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060109

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150604085226 | <b>Received Date:</b> 06/04/2015 12:40   |
| <b>Lab Sample ID:</b> 15060109-02 (AS11838)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2112 | SM 2540D | 06/04/2015 14:59 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 43.2          | 1.79 | 1.79            |       | 2112    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 04, 2015

**Lab Report ID:** 15060144

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308  
Phone: 518.346.4592 | internet: [www.pacelabs.com](http://www.pacelabs.com)

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# CASE NARRATIVE

June 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15060144) consists of 4 water samples received on 6/5/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS11962              | NRS-162.90-T150605093238 | 6/4/2015 06:00         |
| AS11963              | NRS-186.00-T150604085439 | 6/4/2015 06:00         |
| AS11964              | NRS-187.70-T150604085544 | 6/4/2015 06:00         |
| AS11965              | NRS-BDUP-T150604085511   | 6/4/2015               |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/5/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (3.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (4.) Sample (LAB ID: AS11962) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-938-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150604145953PACE

Sample Custodian: JR

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD   | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|----------|----|-----|----|------------------------|--------------|
| 001               | NRS-162.90-T150605093238 | ENV   | W         | 06/04/2015     | 06:00          | W      | 3            |                        |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 002               | NRS-186.00-T150604085439 | ENV   | W         | 06/04/2015     | 06:00          | W      | 2            |                        |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 003               | NRS-187.70-T150604085544 | ENV   | W         | 06/04/2015     | 06:00          | W      | 3            |                        |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 004               | NRS-BDUP-T150604085511   | DUP   | W         | 06/04/2015     |                | W      | 2            |                        |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |

A51962

A51963

A51964

A51965

3

Comments: Temp: 3.7, 3.5 COC seal (P)

| Relinquished by: |            | Received by: |            | Relinquished by: |            | Received by: |            |
|------------------|------------|--------------|------------|------------------|------------|--------------|------------|
| Signature        | Signature  | Signature    | Signature  | Signature        | Signature  | Signature    | Signature  |
| Print Name       | Print Name | Print Name   | Print Name | Print Name       | Print Name | Print Name   | Print Name |
| Company          | Company    | Company      | Company    | Company          | Company    | Company      | Company    |
| Date/Time        | Date/Time  | Date/Time    | Date/Time  | Date/Time        | Date/Time  | Date/Time    | Date/Time  |

Date Printed: 6/5/2015

\* S = SEDIMENT, W = WATER, PW = PORE WATER \*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



# Sample Condition Upon Receipt

<15060144P2>



150501442

CLIENT NAME: GE  
PROJECT: HR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # NA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None   
 THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 3.7, 3.5  
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |
|--|---|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>72hr</u>                          |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |
| - Includes date/time/TD/Analysis   |   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| - Exceptions that are not checked: VOA   |   |  |   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Pace Trip Blank Lot #: <u>NA</u>   |   |  |   |

Sample Receipt form filled in: Asm 6/5/15 Line-Out (Includes Copying Shipping Documents and verifying sample pH):  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS): Asm 6/5/15  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): Asm 6/5/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060144

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060144  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*72 HOUR\*

**RECEIVED DATE:** 06/05/2015 11:30  
**SHIPPED VIA:** PICK UP <sup>1</sup>**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SHIPPING ID:** <sup>3</sup>**SAMPLES REC'D IN HOLDTIME:** YES  
**NUMBER OF COOLERS:** 2  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** <sup>5</sup>3.7, 3.5 °C

**SAMPLE SEALS INTACT:** NA  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| NRS-162.90-T150605093238 (AS11962) | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150604085439 (AS11963) | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150604085544 (AS11964) | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-08-15        | 06/04/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-BDUP-T150604085511 (AS11965)   | *72 HOUR* 06-08-15        | 06/04/2015        | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-08-15        | 06/04/2015        | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/05/15

Batch ID: 30951

Method: EPA 3535A

Initial for required Clean Up Steps

| ID | Prep ID | LAB Sample ID | Alt Sample ID | Matrix | pH | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | KEN                       |                          | KEN                         | KEN                   | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |
|----|---------|---------------|---------------|--------|----|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|---------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|
|    |         |               |               |        |    |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD) | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |
| 1  | 307633  | PBLK-15       | AS11966B      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 2  | 307632  | LCS-15        | AS11966L      | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1000                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 3  | 307626  | 15060145-01   | AS11966       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 845                     | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 4  | 307627  | 15060145-02   | AS11967       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 5  | 307628  | 15060144-01   | AS11962       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1020                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 6  | 307629  | 15060144-02   | AS11963       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1070                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 7  | 307630  | 15060144-03   | AS11964       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |
| 8  | 307631  | 15060144-04   | AS11965       | Water  | 5  | E PCB W           | SPE-1L              | N/A                  | 1040                    | NA                  | NA                   | NA                  | NA                   | 06/05                     | NA                       | 06/05                       | 06/05                 | 5                   | 06/05             |          |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Jessica Ramdass*

Jessica Ramdass

Peer Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060144**

**Batch ID: 30951**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11966B      | GC28F-1634-17 | Water  | 06/05/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11966L      | GC28F-1634-18 | Water  | 06/05/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11966RR1    | GC28F-1635-6  | Water  | 06/05/15  | 845                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11967       | GC28F-1634-20 | Water  | 06/05/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11962RR1    | GC28F-1634-29 | Water  | 06/05/15  | 1020                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11963       | GC28F-1634-22 | Water  | 06/05/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11964       | GC28F-1634-23 | Water  | 06/05/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11965       | GC28F-1634-24 | Water  | 06/05/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060144

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-15        | AS11966B      | GC28F-1634-17 | 89.4                   | 105                    |           |           | 0         |
| LCS-15         | AS11966L      | GC28F-1634-18 | 89.4                   | 103                    |           |           | 0         |
| 15060144-01RR1 | AS11962RR1    | GC28F-1634-29 | 99.5                   | 98.2                   |           |           | 0         |
| 15060144-02    | AS11963       | GC28F-1634-22 | 95.8                   | 100                    |           |           | 0         |
| 15060144-03    | AS11964       | GC28F-1634-23 | 95.8                   | 95.6                   |           |           | 0         |
| 15060144-04    | AS11965       | GC28F-1634-24 | 97.2                   | 98.2                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060144</u>                           |
| LCS Lab ID: <u>LCS-15</u>                | Blank Sample ID: <u>PBLK-15</u>                   |
| LCS File ID: <u>GC28F-1634-18</u>        | Method Blank File ID: <u>GC28F-1634-17</u>        |
| LCS Inj Date: <u>06/05/2015 18:09:35</u> | Method Blank Inj Date: <u>06/05/2015 17:55:35</u> |
| LCS ID: <u>AS11966L</u>                  | Method Blank ID: <u>AS11966B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT<br>RECOVERY |
|--------------|--------------------------|--------------------------------|------------------------------|---|
| Aroclor 1242 | 0.250                    | 0.244                          | 97.6                         | 70.0-130                                      |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060144</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-15</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11966B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1634-17</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/05/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/05/2015</u>  |
|  | Time Analyzed: <u>17:55:35</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-15(LAB CONTROL SPIKE) | AS11966L         | GC28F-1634-18  | 06/05/2015 18:09:35     |
| NRS-186.00-T150604085439  | AS11963          | GC28F-1634-22  | 06/05/2015 19:04:53     |
| NRS-187.70-T150604085544  | AS11964          | GC28F-1634-23  | 06/05/2015 19:18:41     |
| NRS-BDUP-T150604085511    | AS11965          | GC28F-1634-24  | 06/05/2015 19:32:29     |
| NRS-162.90-T150605093238  | AS11962RR1       | GC28F-1634-29  | 06/05/2015 22:22:38     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060144</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060144-01RR1</u>              |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150605093238</u> |
| Sample wt(Dry)/vol: <u>1020 mL</u>                                     | Lab Sample ID: <u>AS11962RR1</u>           |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-29</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/05/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.127                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0418                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                          |                     |                              |
|--------------------|--------------------------|---------------------|------------------------------|
| Sample Name:       | AS11962RR1               | Sample Amount (L) : | 1.0200                       |
| Sample ID:         | NRS-162.90-T150605093238 | Dilution:           | 5                            |
| Date Acquired:     | 6/5/2015 10:22:38 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/5/2015 11:05:51 PM EDT     |
| Sample Set Name:   | GC28F_060515c            | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/5/2015                     |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:19:11 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1634-29 [m]            |

**Peak Results**

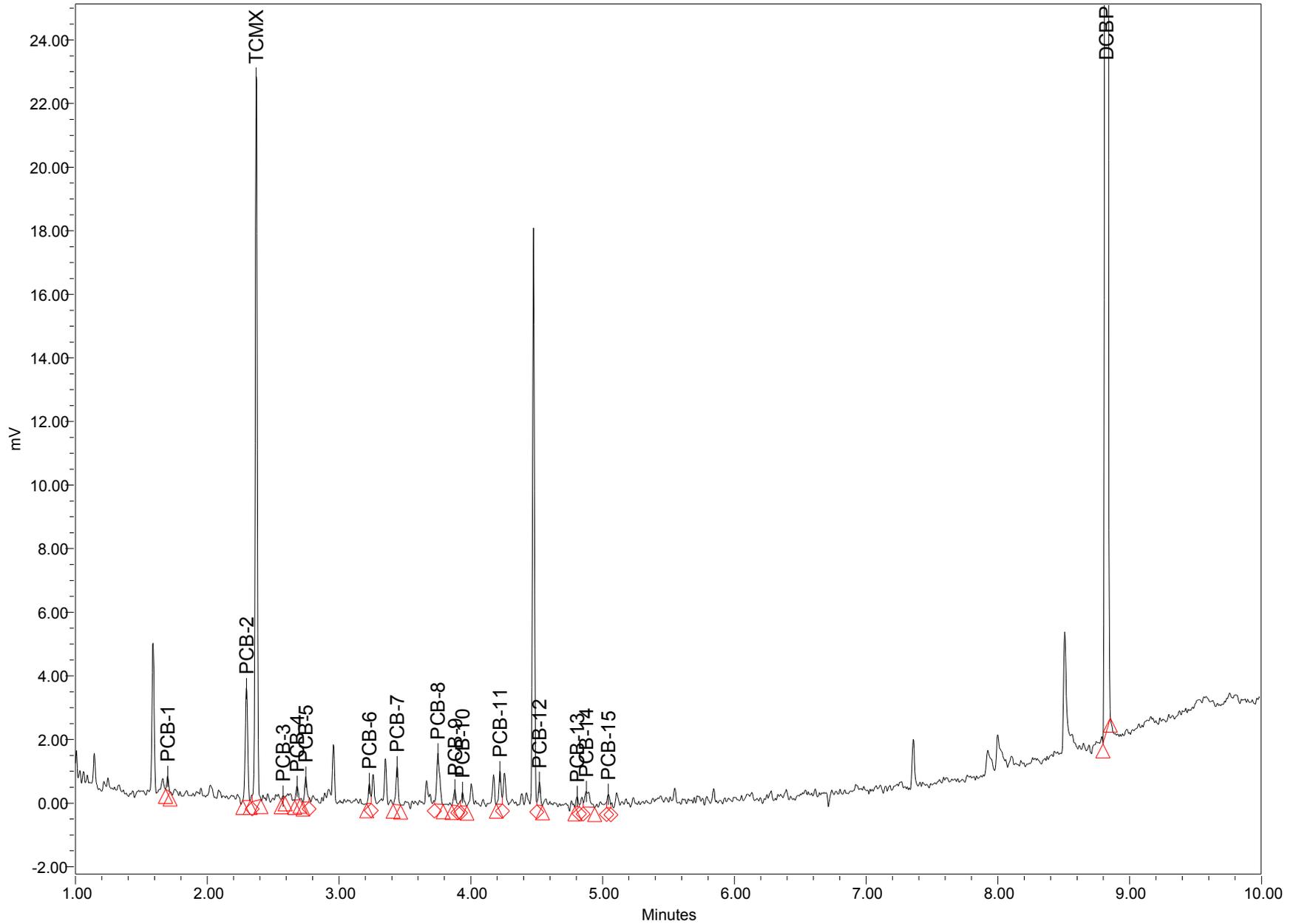
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.700          | bb               | 432           |                      |             |             |
| 2  | PCB-2     | 2.298          | bb               | 4523          |                      |             |             |
| 3  | TCMX      | 2.371          | VB               | 24275         | 4.975                | 99.5        |             |
| 4  | PCB-3     | 2.574          | bb               | 72            |                      |             |             |
| 5  | PCB-4     | 2.682          | bb               | 480           |                      |             |             |
| 6  | PCB-5     | 2.748          | bv               | 990           |                      |             |             |
| 7  | PCB-6     | 3.230          | bV               | 656           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 1408          |                      |             |             |
| 9  | PCB-8     | 3.750          | vb               | 2502          |                      |             |             |
| 10 | PCB-9     | 3.879          | bv               | 621           |                      |             |             |
| 11 | PCB-10    | 3.937          | vb               | 540           |                      |             |             |
| 12 | PCB-11    | 4.221          | bV               | 1215          |                      |             |             |
| 13 | PCB-12    | 4.521          | Vb               | 828           |                      |             |             |
| 14 | PCB-13    | 4.806          | bV               | 387           |                      |             |             |
| 15 | PCB-14    | 4.876          | Vb               | 1344          |                      |             |             |
| 16 | PCB-15    | 5.044          | vV               | 565           |                      |             |             |
| 17 | DCBP      | 8.823          | BB               | 200683        | 49.090               |             | 98.2        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 5728.4058           | 6.633                | 0.03252     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 6496.2038           | 25.878               | 0.12685     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 1973.6291           | 8.866                | 0.04346     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 5505.9501           | 44.056               | 0.21596     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 6062.2876           | 13.888               | 0.06808     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 2938.8602           | 13.951               | 0.06839     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 5728.4058           | 8.534                | 0.04183     | 0.0250   | 0.00873  | X      | AD   |
| 8 | A1248       | 4339.1463           | 5.351                | 0.02623     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1248-11/15 | 2559.7181           | 5.305                | 0.02601     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 2430.0941           | 6.500               | 0.03186     | 0.0250   | 0.00873  | NR     |      |



SampleName AS11962RR1; Sample\_ID NRS-162.90-T150605093238

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                                 |
|-----------------------|---|------------------|---------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060144</u>                 |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060144-02</u>              |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-186.00-T150604085439</u> |
| Sample wt(Dry)/vol:   | <u>1070 mL</u>  | Lab Sample ID:   | <u>AS11963</u>                  |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1634-22</u>            |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/05/2015</u>               |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/05/2015</u>               |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/05/2015</u>               |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                        |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                      |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.179                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0321                | AD   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0112                | AF,J |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11963                  | Sample Amount (L) : | 1.0700                  |
| Sample ID:         | NRS-186.00-T150604085439 | Dilution:           | 5                       |
| Date Acquired:     | 6/5/2015 7:04:53 PM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 9:29:40 AM EDT |
| Sample Set Name:   | GC28F_060515b            | User Name:          | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 9:46:46 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1634-22 [m]       |

**Peak Results**

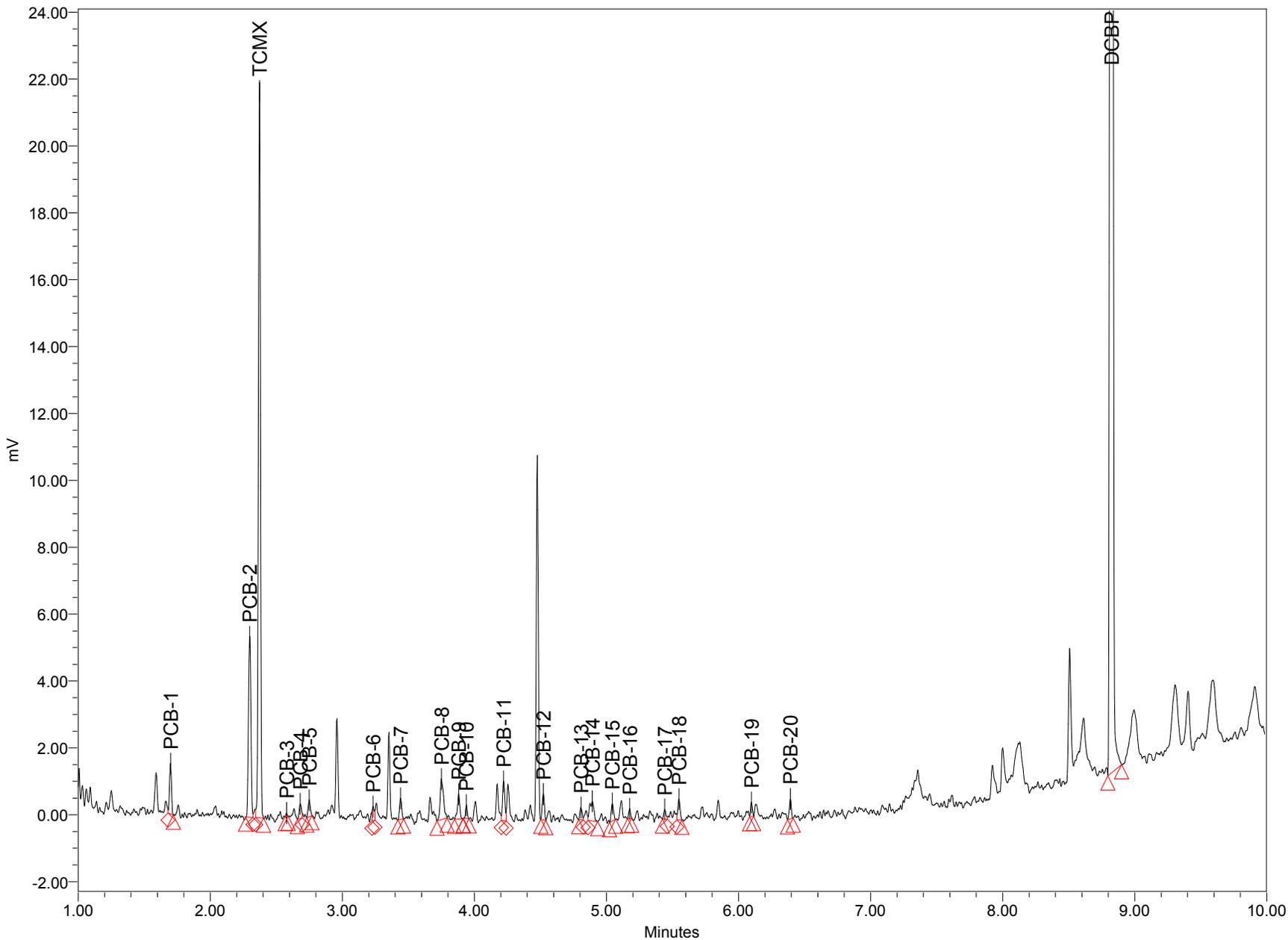
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | Vb               | 1556          |                      |             |             |
| 2  | PCB-2     | 2.298          | bV               | 6922          |                      |             |             |
| 3  | TCMX      | 2.372          | vB               | 23398         | 4.791                | 95.8        |             |
| 4  | PCB-3     | 2.577          | bb               | 67            |                      |             |             |
| 5  | PCB-4     | 2.682          | bv               | 531           |                      |             |             |
| 6  | PCB-5     | 2.749          | bb               | 563           |                      |             |             |
| 7  | PCB-6     | 3.233          | vV               | 481           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 710           |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 2126          |                      |             |             |
| 10 | PCB-9     | 3.881          | bB               | 950           |                      |             |             |
| 11 | PCB-10    | 3.939          | Bb               | 369           |                      |             |             |
| 12 | PCB-11    | 4.221          | VV               | 1395          |                      |             |             |
| 13 | PCB-12    | 4.522          | bb               | 874           |                      |             |             |
| 14 | PCB-13    | 4.807          | BV               | 417           |                      |             |             |
| 15 | PCB-14    | 4.893          | Vb               | 1301          |                      |             |             |
| 16 | PCB-15    | 5.044          | bb               | 645           |                      |             |             |
| 17 | PCB-16    | 5.176          | bb               | 274           |                      |             |             |
| 18 | PCB-17    | 5.441          | bv               | 330           |                      |             |             |
| 19 | PCB-18    | 5.549          | Vb               | 711           |                      |             |             |
| 20 | PCB-19    | 6.097          | bb               | 400           |                      |             |             |
| 21 | PCB-20    | 6.393          | bb               | 647           |                      |             |             |
| 22 | DCBP      | 8.823          | Bb               | 204598        | 50.114               |             | 100         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 4635.2065           | 5.333                | 0.02492     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 9638.7168           | 38.365               | 0.17928     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2716.7684           | 11.972               | 0.05595     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 9075.7838           | 72.348               | 0.33807     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 4717.4636           | 10.805              | 0.05049     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 1641.2981           | 7.581               | 0.03543     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 4635.2065           | 6.871               | 0.03211     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 4631.1970           | 5.747               | 0.02685     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 2591.7144           | 5.372               | 0.02510     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 2685.9947           | 7.219               | 0.03373     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 2362.4216           | 2.394               | 0.01119     | 0.0250   | 0.00873  | X      | AF,J |
| 12 | A1254-17/18 | 1321.1429           | 2.385               | 0.01114     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 1315.3700           | 2.198               | 0.01027     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 1715.6907           | 2.328               | 0.01088     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 646.7309            | 0.415               | 0.00194     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 646.7309            | 1.094               | 0.00511     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 646.7309            |                     |             |          |          | NR     |      |



SampleName AS11963; Sample\_ID NRS-186.00-T150604085439



|                    |                          |                      |                     |
|--------------------|--------------------------|----------------------|---------------------|
| Lab ID:            | AS11963                  | Current Date Time:   | 6/9/2015 15:22:54   |
| Sample ID:         | NRS-186.00-T150604085439 | LIMS File ID:        | GC28F-1634-22       |
| Matrix:            | Water                    | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/5/2015 7:04:53 PM      | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215        |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{9638.716795 - -16.185578}{251.658479} = 38.3651 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{38.3651 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1070 \text{ mL}} = 0.179 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060144</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060144-03</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150604085544</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS11964</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-23</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/05/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0401                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0137                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS11964                  | Sample Amount (L) : | 1.0400                  |
| Sample ID:         | NRS-187.70-T150604085544 | Dilution:           | 5                       |
| Date Acquired:     | 6/5/2015 7:18:41 PM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/6/2015 9:31:41 AM EDT |
| Sample Set Name:   | GC28F_060515b            | User Name:          | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/6/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 9:47:07 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1634-23 [m]       |

**Peak Results**

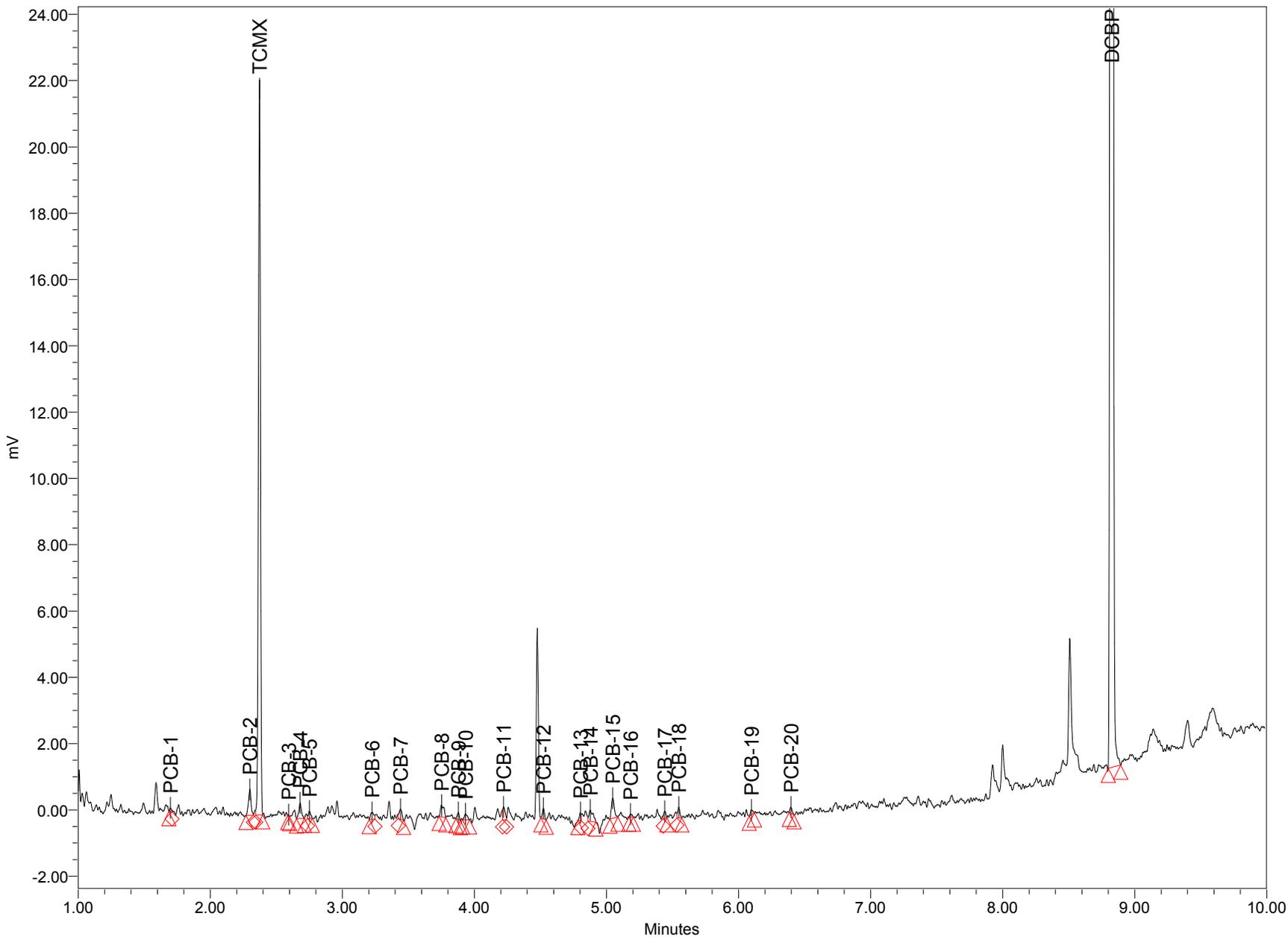
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | bv               | 99            |                      |             |             |
| 2  | PCB-2     | 2.299          | bV               | 1032          |                      |             |             |
| 3  | TCMX      | 2.372          | vB               | 23401         | 4.792                | 95.8        |             |
| 4  | PCB-3     | 2.593          | bb               | 16            |                      |             |             |
| 5  | PCB-4     | 2.680          | bb               | 658           |                      |             |             |
| 6  | PCB-5     | 2.750          | vb               | 278           |                      |             |             |
| 7  | PCB-6     | 3.225          | bv               | 364           |                      |             |             |
| 8  | PCB-7     | 3.441          | vb               | 439           |                      |             |             |
| 9  | PCB-8     | 3.751          | bb               | 659           |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 232           |                      |             |             |
| 11 | PCB-10    | 3.932          | bb               | 291           |                      |             |             |
| 12 | PCB-11    | 4.221          | vV               | 462           |                      |             |             |
| 13 | PCB-12    | 4.522          | bb               | 326           |                      |             |             |
| 14 | PCB-13    | 4.804          | bv               | 222           |                      |             |             |
| 15 | PCB-14    | 4.877          | vb               | 740           |                      |             |             |
| 16 | PCB-15    | 5.047          | bb               | 938           |                      |             |             |
| 17 | PCB-16    | 5.182          | bb               | 101           |                      |             |             |
| 18 | PCB-17    | 5.441          | vb               | 228           |                      |             |             |
| 19 | PCB-18    | 5.547          | vb               | 372           |                      |             |             |
| 20 | PCB-19    | 6.097          | bb               | 179           |                      |             |             |
| 21 | PCB-20    | 6.397          | bb               | 201           |                      |             |             |
| 22 | DCBP      | 8.825          | Bb               | 195775        | 47.806               |             | 95.6        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 1984.6491           | 2.180                | 0.01048     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 2083.5957           | 8.344                | 0.04011     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 1051.4102           | 5.012                | 0.02410     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 1805.2112           | 14.727               | 0.07080     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 1899.4172           | 4.345               | 0.02089     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 1007.8235           | 4.472               | 0.02150     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 1984.6491           | 2.840               | 0.01365     | 0.0250   | 0.00873  | X      | AD,J |
| 8  | A1248       | 2687.3952           | 3.116               | 0.01498     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 1287.0758           | 2.657               | 0.01277     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 1009.6756           | 2.509               | 0.01206     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1080.3222           | 1.242               | 0.00597     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 480.4003            | 1.088               | 0.00523     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 700.6414            | 1.252               | 0.00602     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 879.4715            | 1.352               | 0.00650     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 200.8507            | 0.050               | 0.00024     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 200.8507            | 0.647               | 0.00311     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 200.8507            |                     |             |          |          | NR     |      |



SampleName AS11964; Sample\_ID NRS-187.70-T150604085544

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060144</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060144-04</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>NRS-BDUP-T150604085511</u> |
| Sample wt(Dry)/vol:   | <u>1040 mL</u>  | Lab Sample ID:   | <u>AS11965</u>                |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1634-24</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/05/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/05/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/05/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.149                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0163                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11965                 | Sample Amount (L) : | 1.0400                  |
| Sample ID:         | NRS-BDUP-T150604085511  | Dilution:           | 5                       |
| Date Acquired:     | 6/5/2015 7:32:29 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/6/2015 9:34:33 AM EDT |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:47:27 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L      | LIMS File ID:       | GC28F-1634-24 [m]       |

**Peak Results**

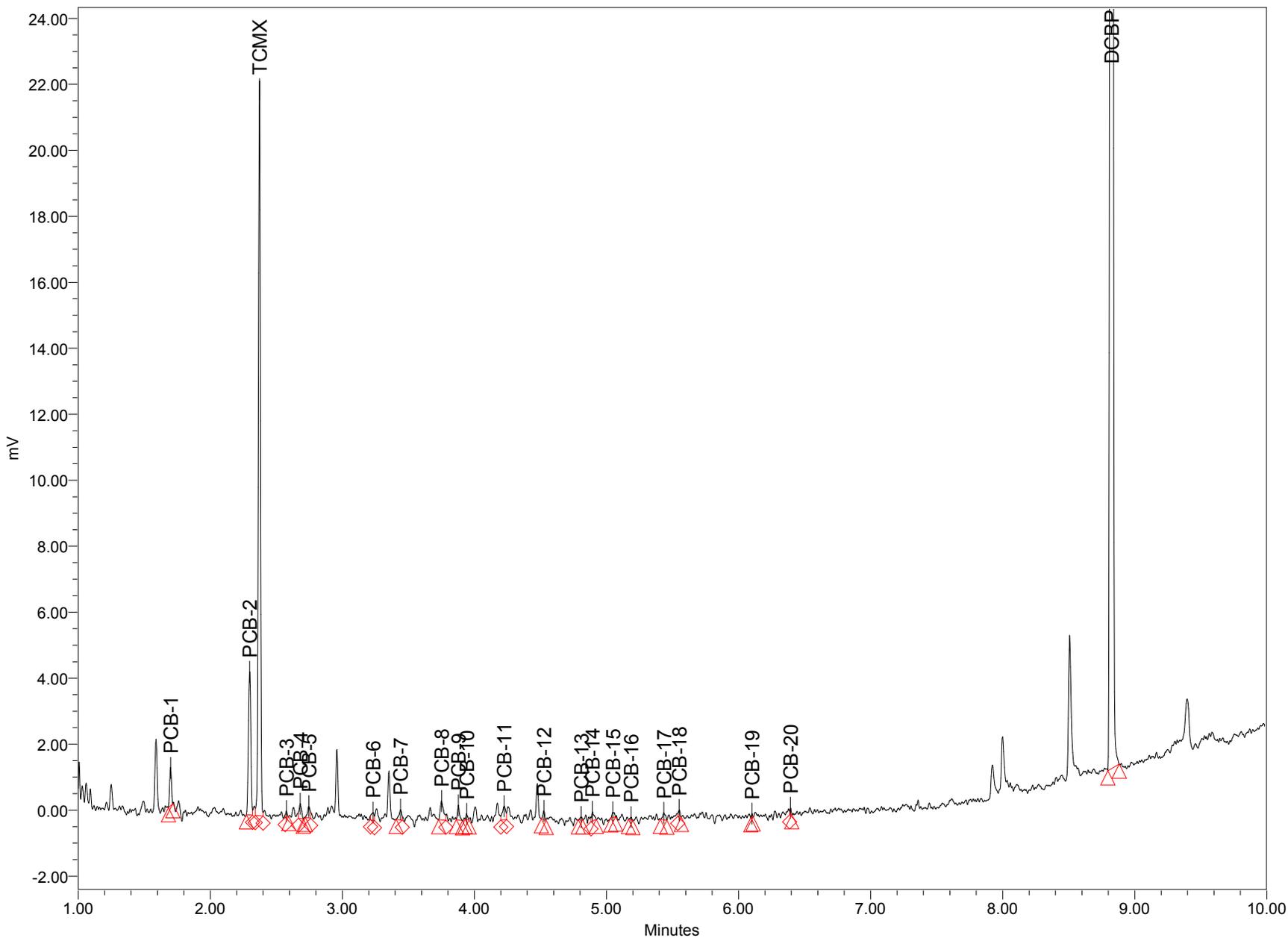
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bb               | 1105          |                      |             |             |
| 2  | PCB-2     | 2.298          | bV               | 5469          |                      |             |             |
| 3  | TCMX      | 2.372          | VV               | 23726         | 4.860                | 97.2        |             |
| 4  | PCB-3     | 2.576          | vb               | 147           |                      |             |             |
| 5  | PCB-4     | 2.681          | vb               | 591           |                      |             |             |
| 6  | PCB-5     | 2.747          | bv               | 458           |                      |             |             |
| 7  | PCB-6     | 3.232          | vv               | 341           |                      |             |             |
| 8  | PCB-7     | 3.441          | bv               | 424           |                      |             |             |
| 9  | PCB-8     | 3.751          | bV               | 968           |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 463           |                      |             |             |
| 11 | PCB-10    | 3.941          | bb               | 152           |                      |             |             |
| 12 | PCB-11    | 4.225          | VV               | 713           |                      |             |             |
| 13 | PCB-12    | 4.526          | bb               | 260           |                      |             |             |
| 14 | PCB-13    | 4.809          | bb               | 96            |                      |             |             |
| 15 | PCB-14    | 4.894          | Vb               | 349           |                      |             |             |
| 16 | PCB-15    | 5.048          | bb               | 201           |                      |             |             |
| 17 | PCB-16    | 5.186          | bb               | 76            |                      |             |             |
| 18 | PCB-17    | 5.434          | bb               | 296           |                      |             |             |
| 19 | PCB-18    | 5.551          | vb               | 186           |                      |             |             |
| 20 | PCB-19    | 6.102          | bb               | 62            |                      |             |             |
| 21 | PCB-20    | 6.394          | Vb               | 139           |                      |             |             |
| 22 | DCBP      | 8.824          | Bb               | 200636        | 49.077               |             | 98.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 2347.0091           | 2.611                | 0.01255     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 7769.7363           | 30.938               | 0.14874     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 2300.4568           | 10.232               | 0.04919     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 7312.0533           | 58.370               | 0.28062     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 2464.0066           | 5.639               | 0.02711     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 1033.6153           | 4.598               | 0.02211     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 2347.0091           | 3.391               | 0.01630     | 0.0250   | 0.00873  | X      | AD,J |
| 8  | A1248       | 1619.5505           | 1.671               | 0.00803     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 705.5388            | 1.447               | 0.00696     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 1068.9851           | 2.676               | 0.01287     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 758.7538            | 0.953               | 0.00458     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 277.3865            | 0.774               | 0.00372     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 557.5560            | 1.032               | 0.00496     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 619.9042            | 1.049               | 0.00504     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 138.8496            |                     |             | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 138.8496            | 0.585               | 0.00281     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 138.8496            |                     |             |          |          | NR     |      |



SampleName AS11965; Sample\_ID NRS-BDUP-T150604085511

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060144

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |               |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

10

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060144

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |                           |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1242 50 PPB              | CS420605A   | GC28F-1634-15        | 06/05/2015 17:15:36        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150605B06   | GC28F-1634-16        | 06/05/2015 17:29:14        | 2.37                       | 8.82 |
| 58   | PBLK-15(METHOD BLANK)     | AS11966B    | GC28F-1634-17        | 06/05/2015 17:55:35        | 2.38                       | 8.83 |
| 59   | LCS-15(LAB CONTROL SPIKE) | AS11966L    | GC28F-1634-18        | 06/05/2015 18:09:35        | 2.37                       | 8.82 |
| 60   | ZZZZZ                     | ZZZZZ       | GC28F-1634-20        | 06/05/2015 18:37:04        | 2.37                       | 8.82 |
| 61   | NRS-186.00-T150604085439  | AS11963     | GC28F-1634-22        | 06/05/2015 19:04:53        | 2.37                       | 8.82 |
| 62   | NRS-187.70-T150604085544  | AS11964     | GC28F-1634-23        | 06/05/2015 19:18:41        | 2.37                       | 8.83 |
| 63   | NRS-BDUP-T150604085511    | AS11965     | GC28F-1634-24        | 06/05/2015 19:32:29        | 2.37                       | 8.82 |
| 64   | A1254 50 PPB              | CS540605A   | GC28F-1634-25        | 06/05/2015 19:46:25        | 2.37                       | 8.82 |
| 65   | HEXANE BLANK-SURR         | 150605B07   | GC28F-1634-26        | 06/05/2015 19:59:51        | 2.37                       | 8.82 |
| 66   | NRS-162.90-T150605093238  | AS11962RR1  | GC28F-1634-29        | 06/05/2015 22:22:38        | 2.37                       | 8.82 |
| 67   | A1260 50 PPB              | CS600605A   | GC28F-1634-30        | 06/05/2015 22:36:37        | 2.37                       | 8.82 |
| 68   | HEXANE BLANK-SURR         | 150605B08   | GC28F-1634-31        | 06/05/2015 22:50:24        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060144

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060144

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

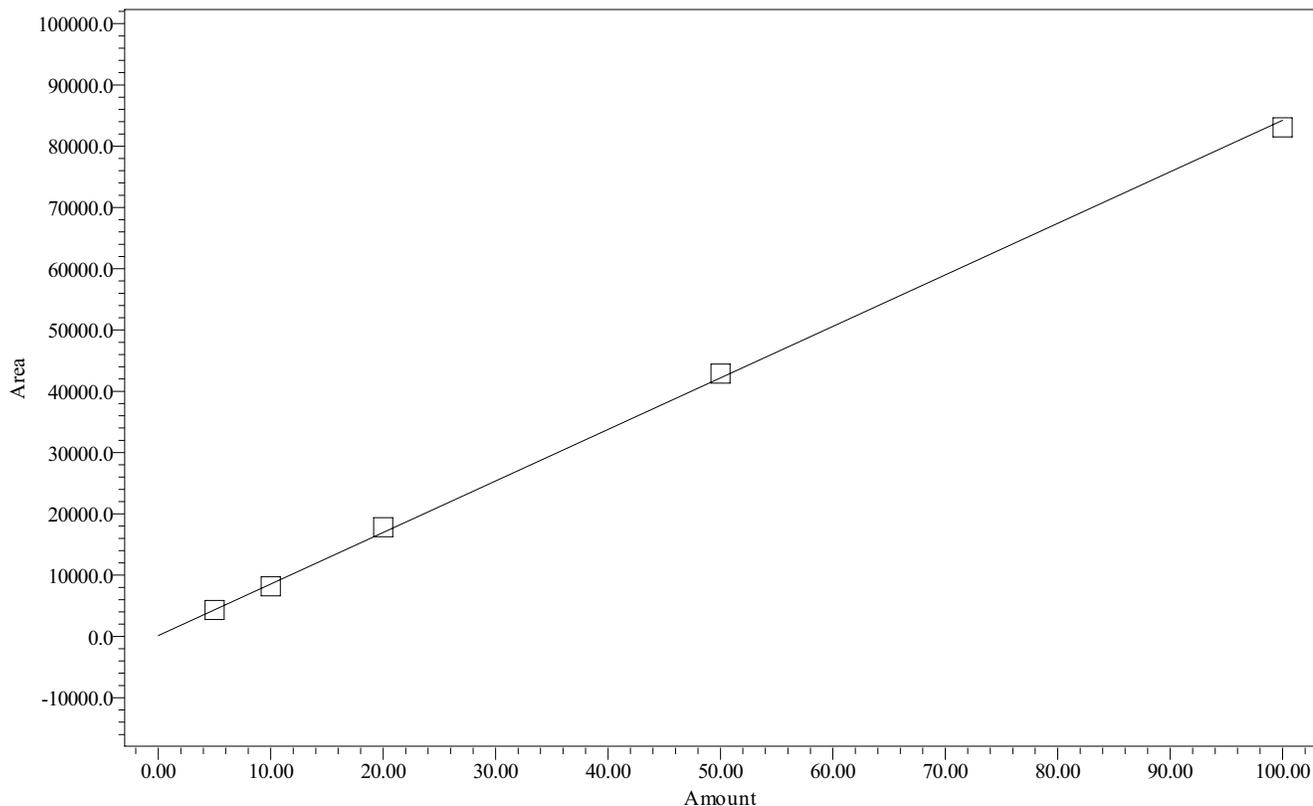
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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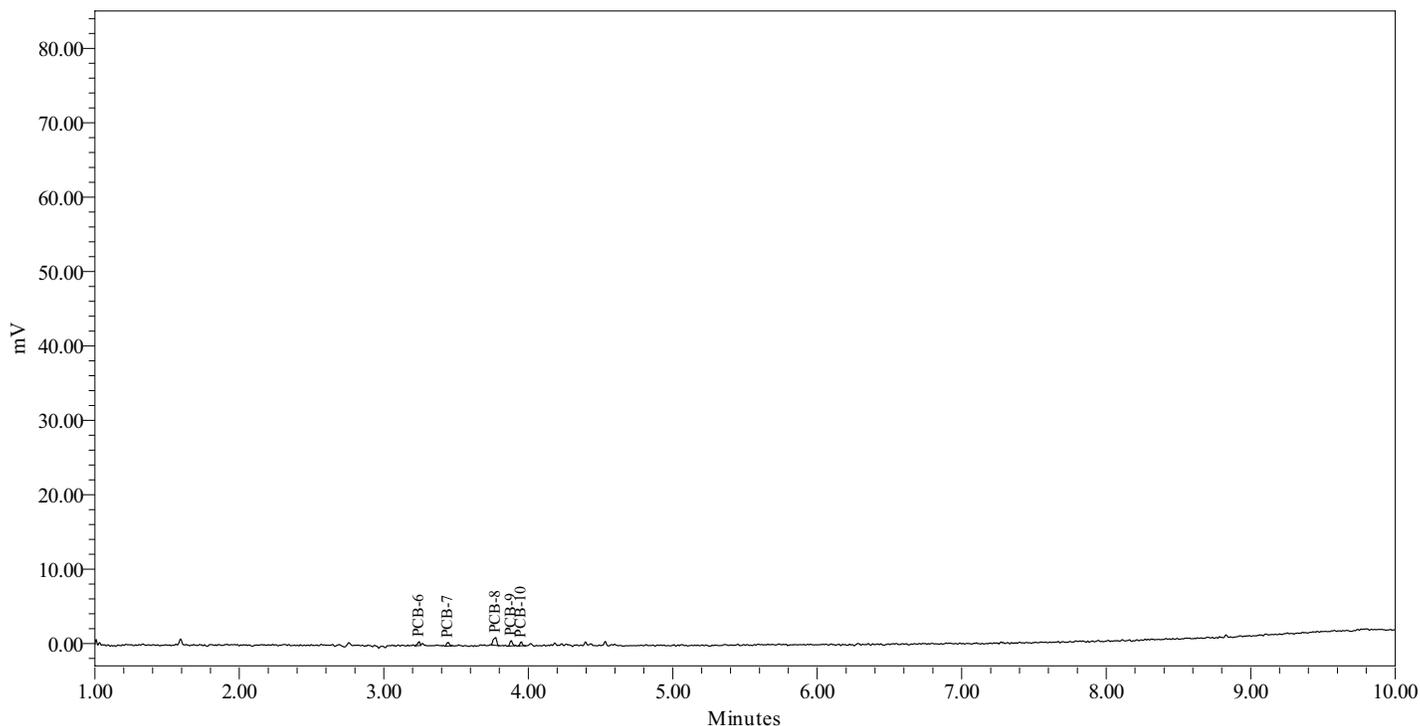
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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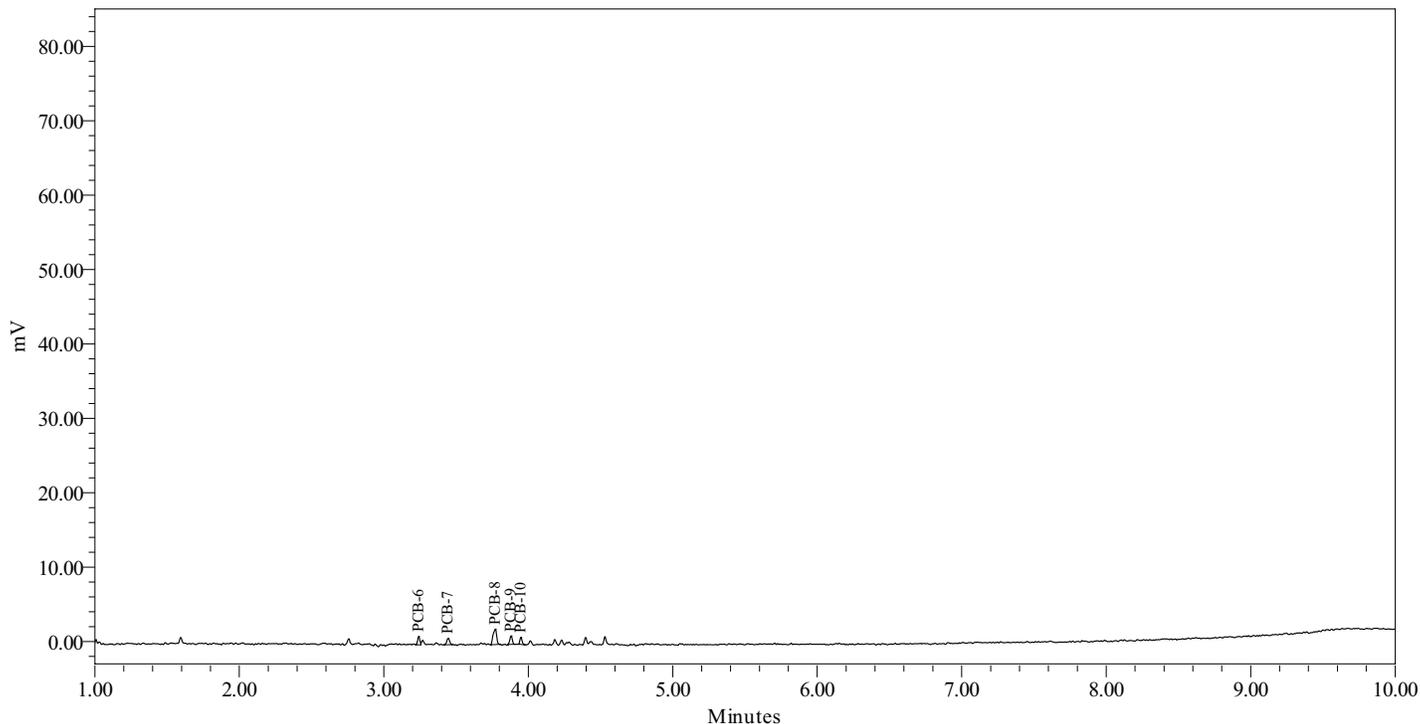
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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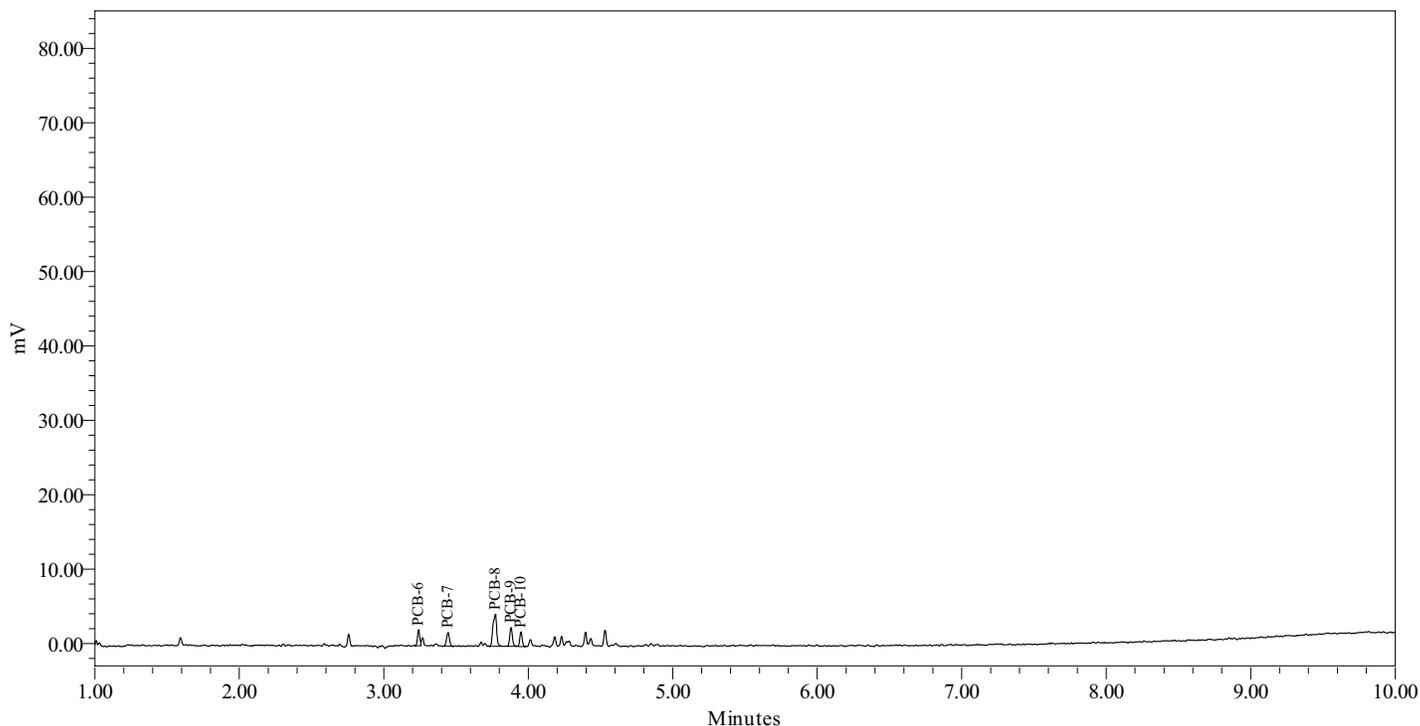
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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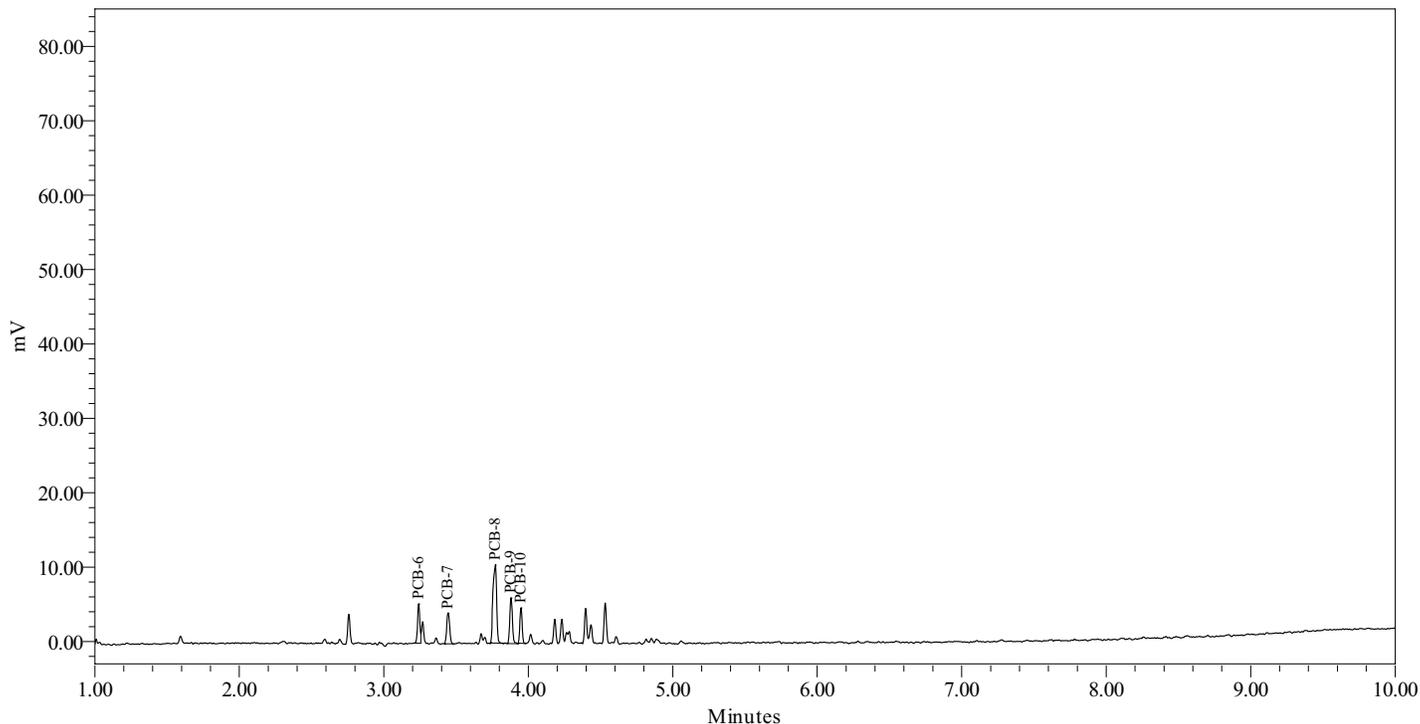
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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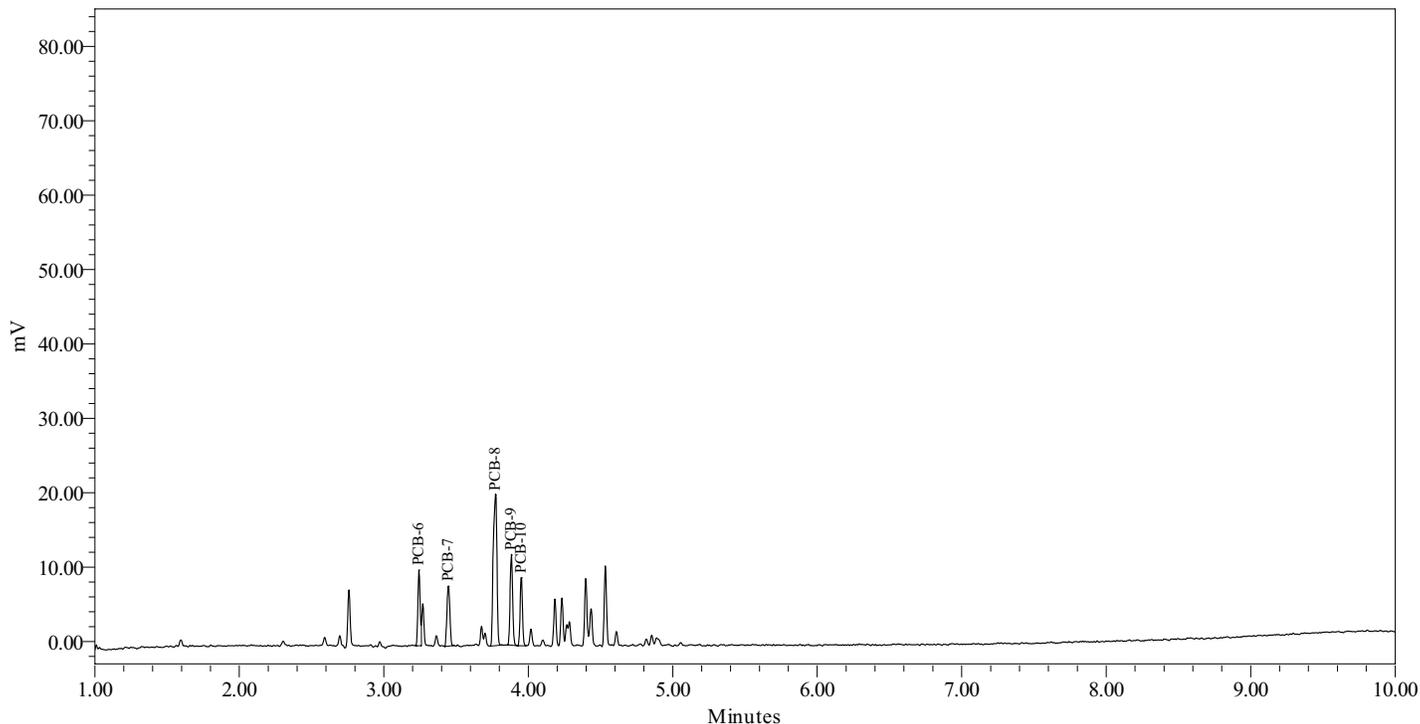
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

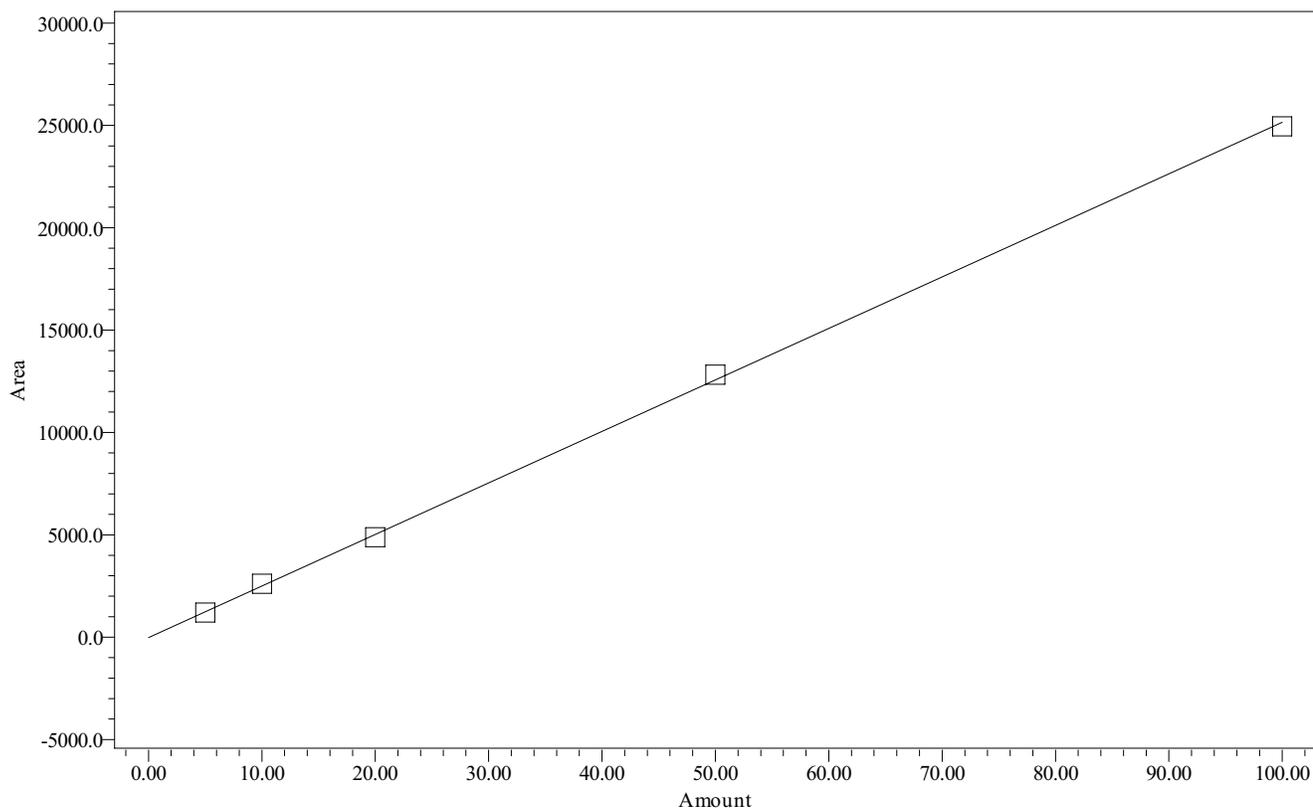
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221                    | Coefficient constant A:           | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

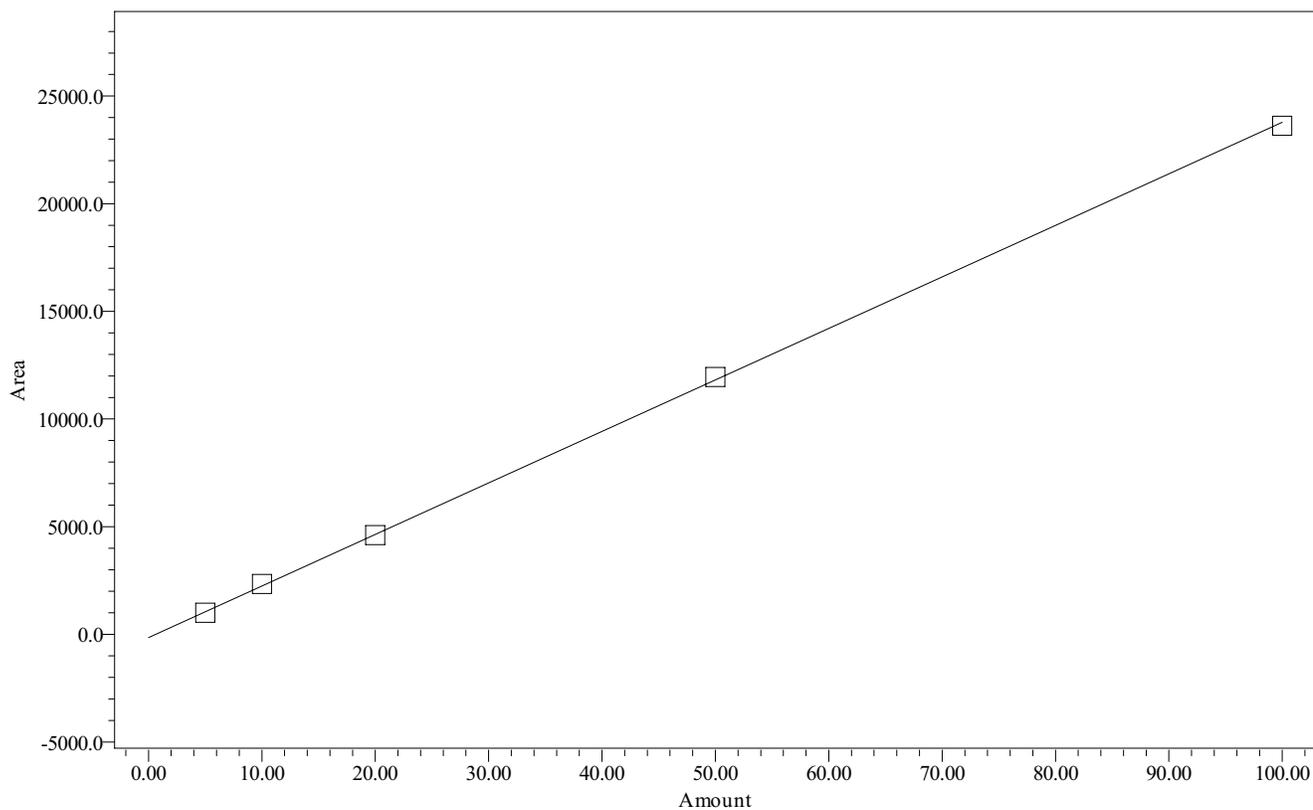
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1221-2                  | Coefficient constant A:                       | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999691    |

Calibration Curve



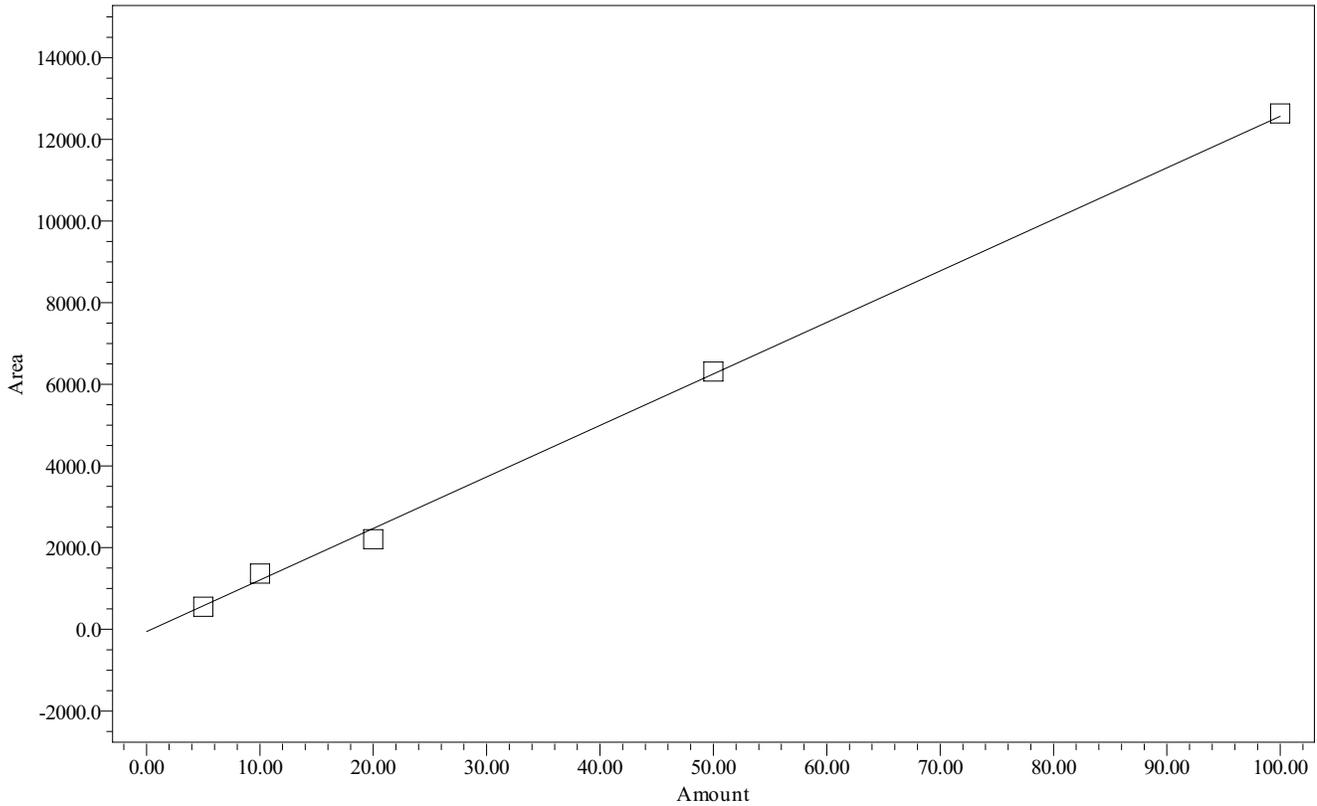
Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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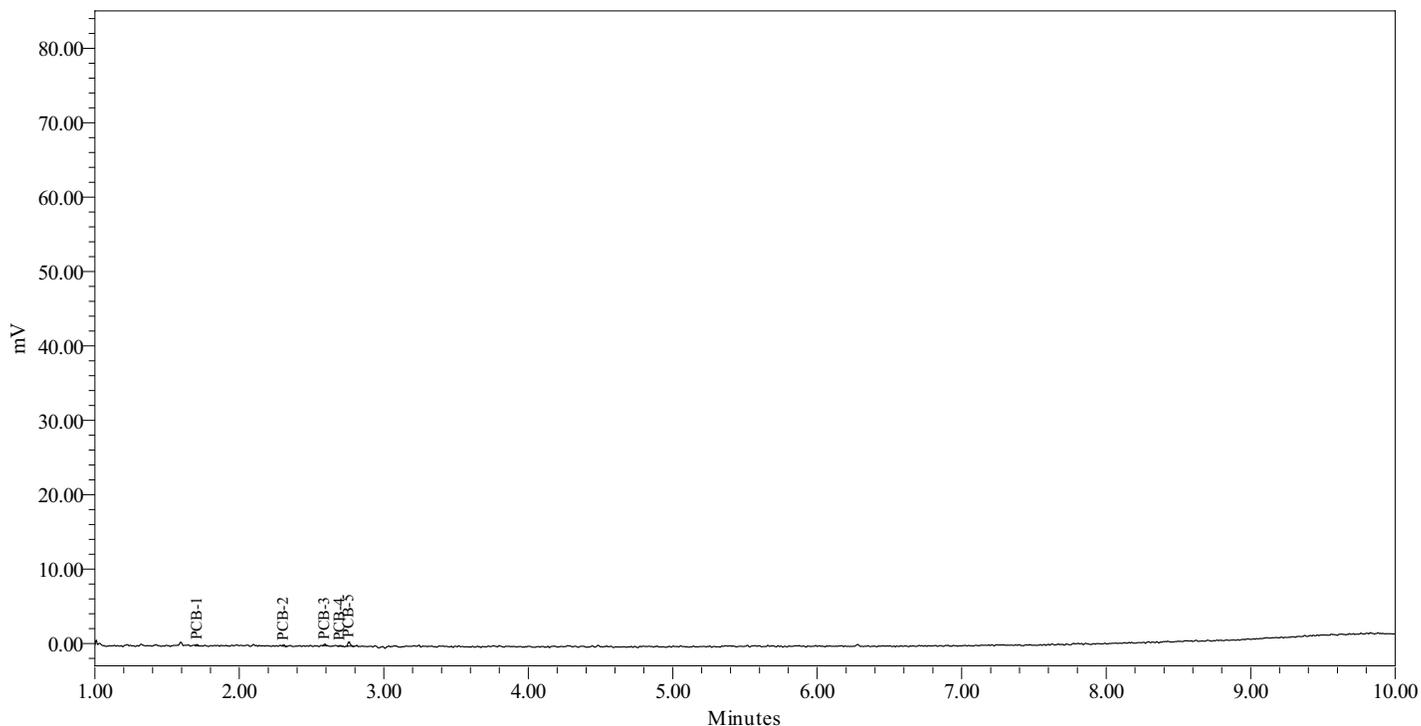
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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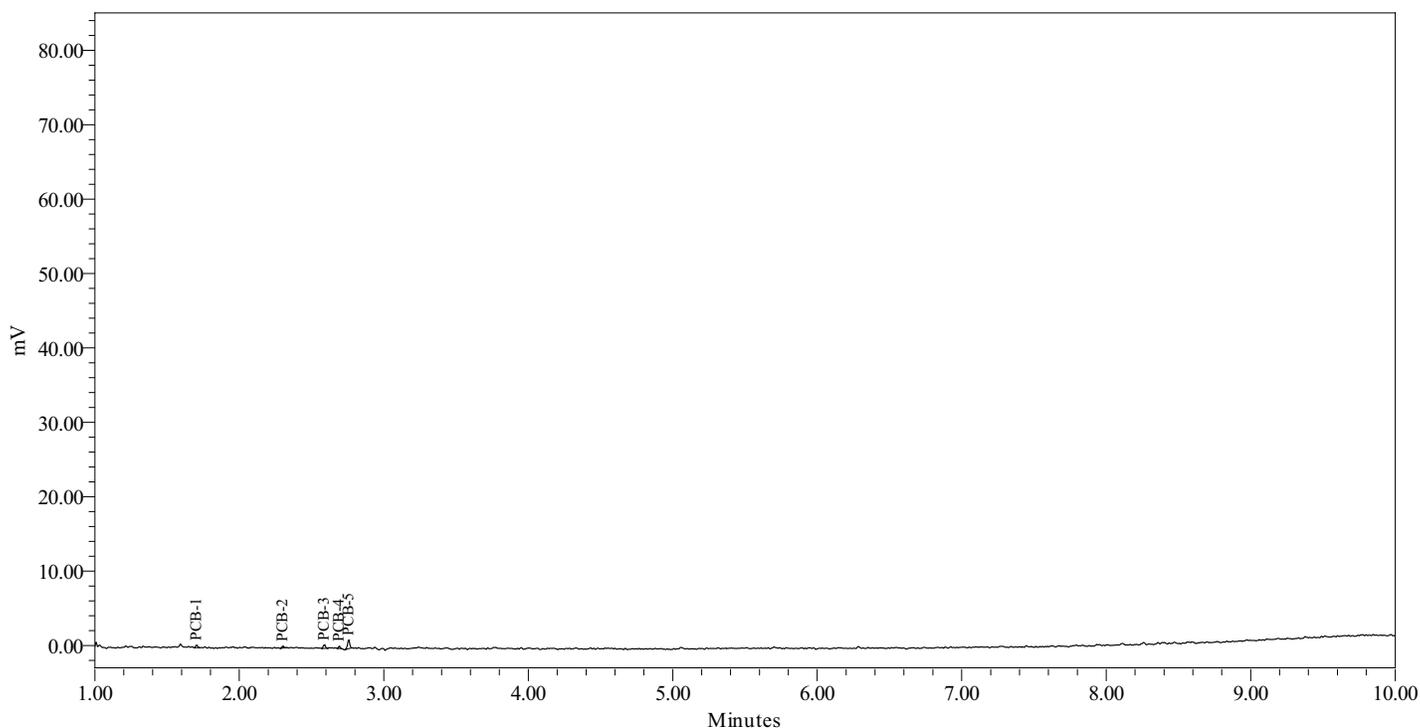
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.703          | bb               | 323           |
| 2 | PCB-2     | 2.301          | bb               | 272           |
| 3 | PCB-3     | 2.588          | bb               | 517           |
| 4 | PCB-4     | 2.691          | bb               | 256           |
| 5 | PCB-5     | 2.757          | bb               | 1247          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1221      | 2615                | 10.000               |
| 2 | A1221-2    | 2343                | 10.000               |
| 3 | A1221-5    | 1368                | 10.000               |
| 4 | A1232      | 1247                |                      |
| 5 | A1232-8/9  | 1247                |                      |



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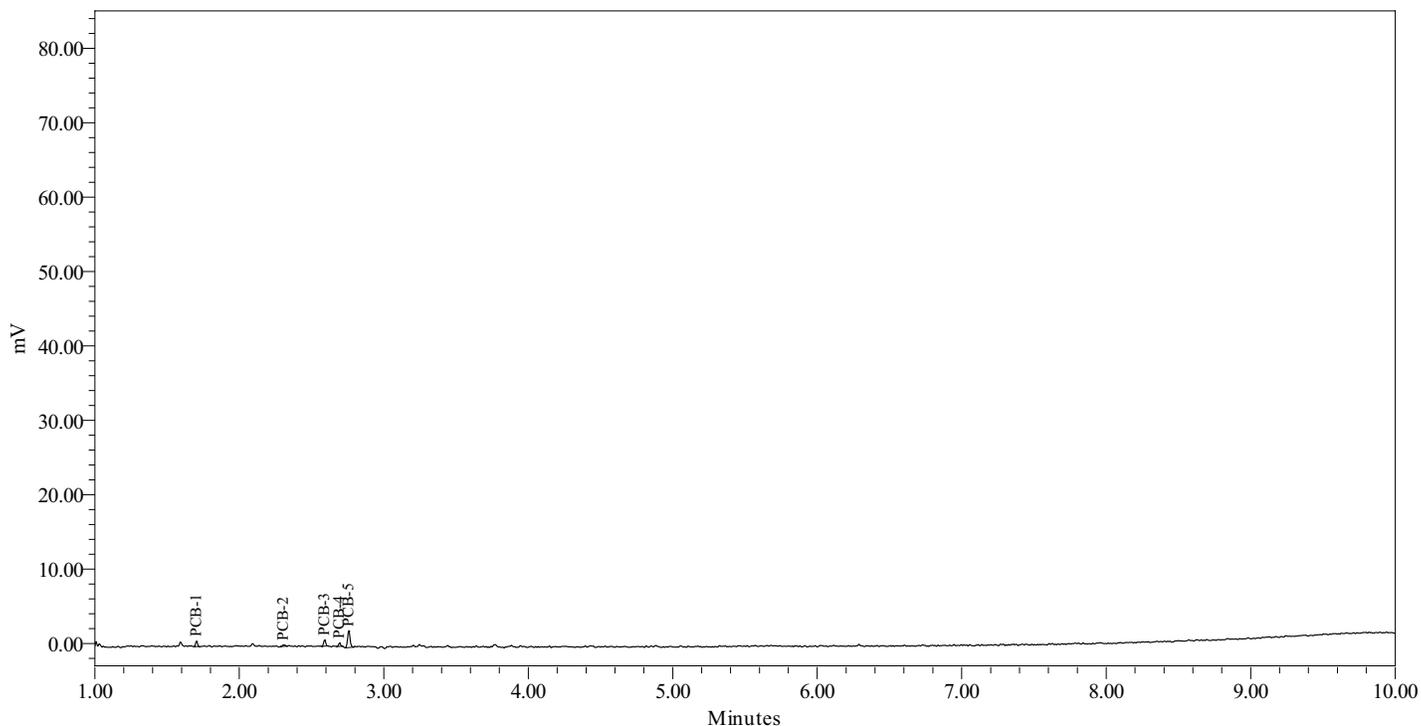
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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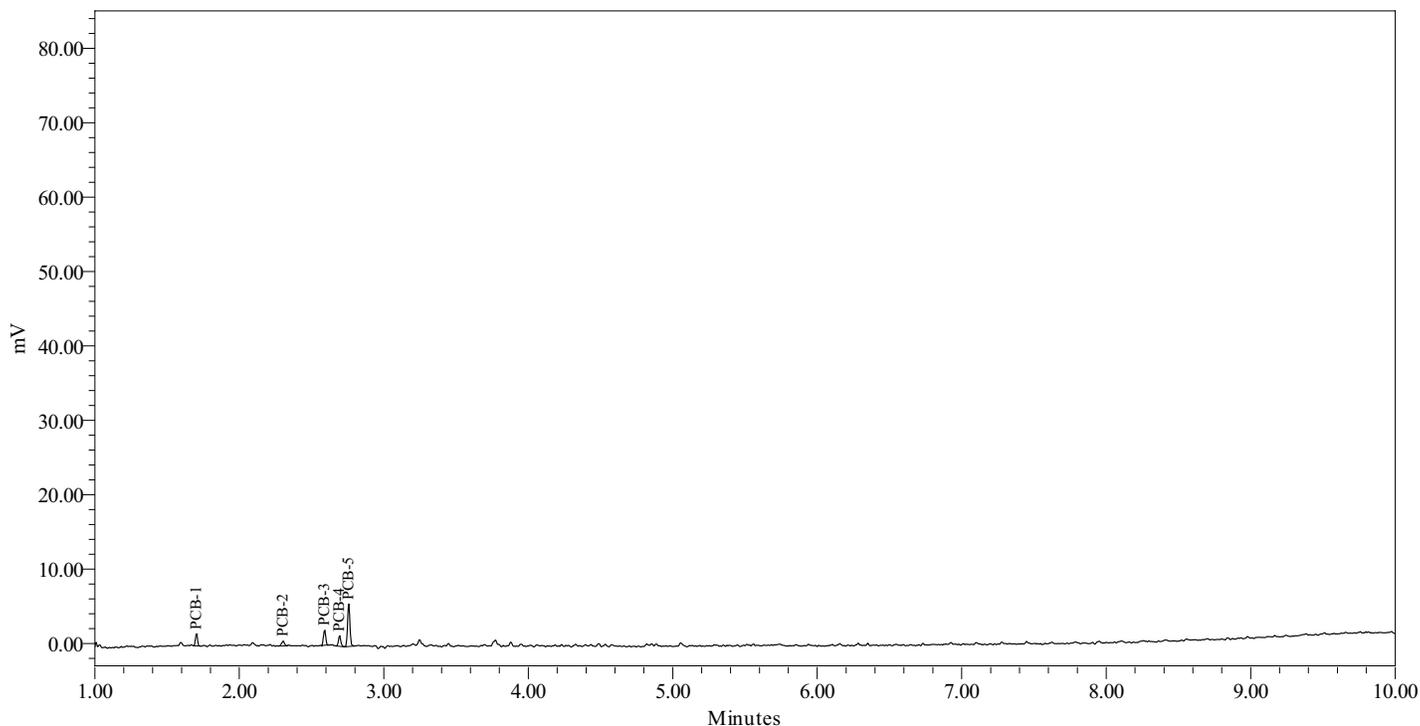
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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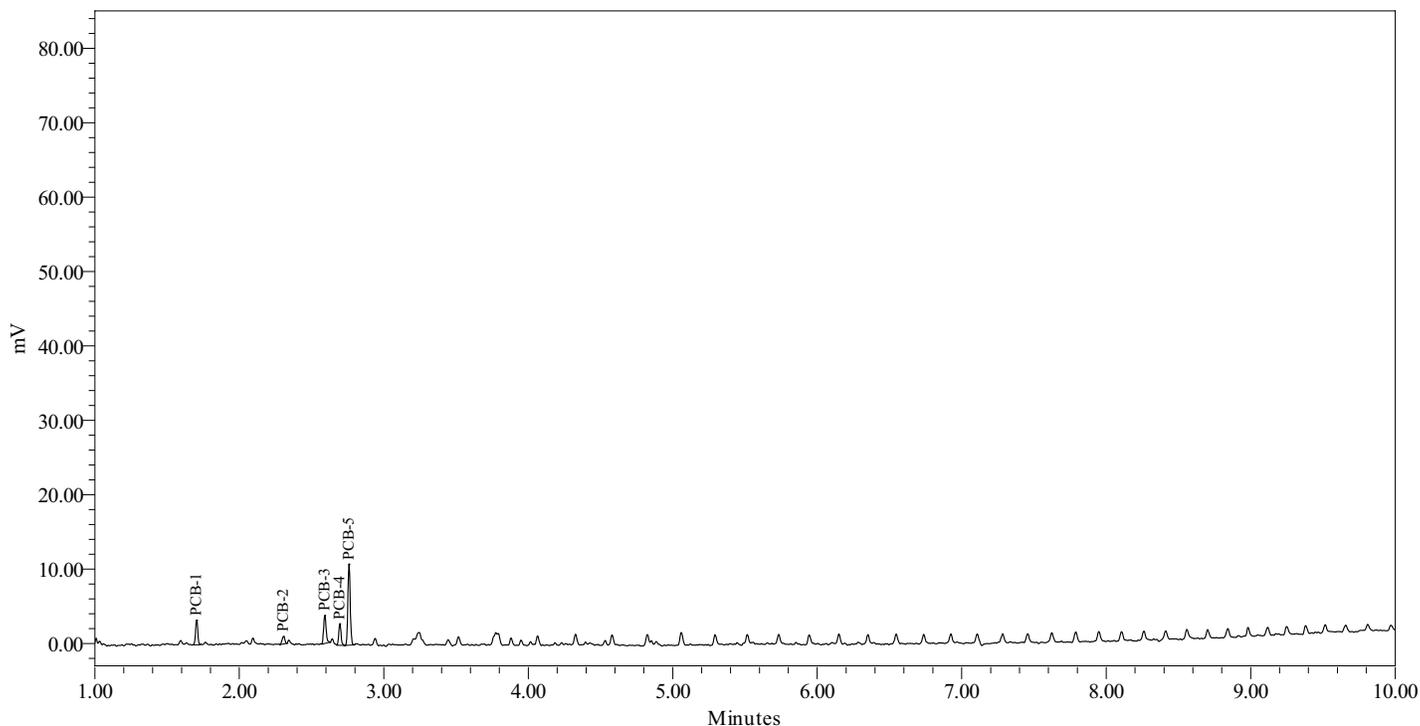
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

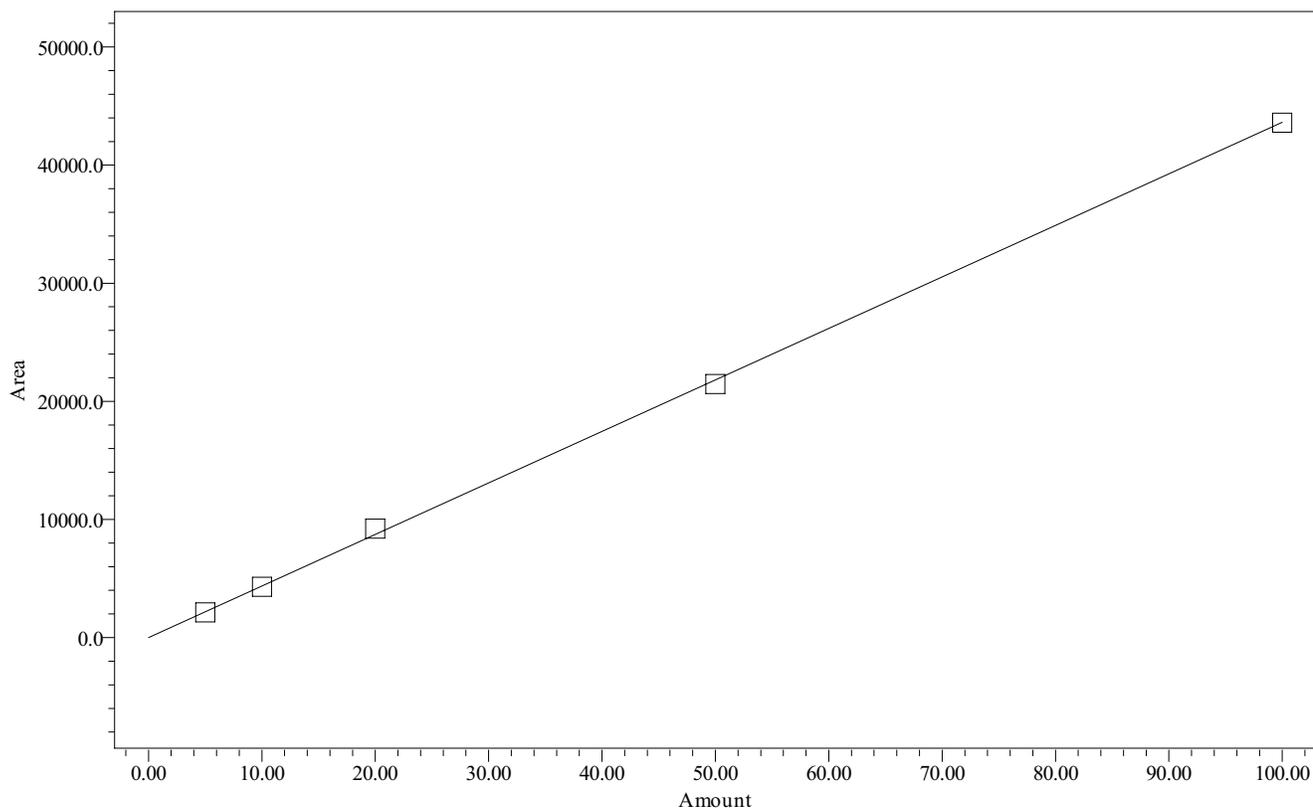
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

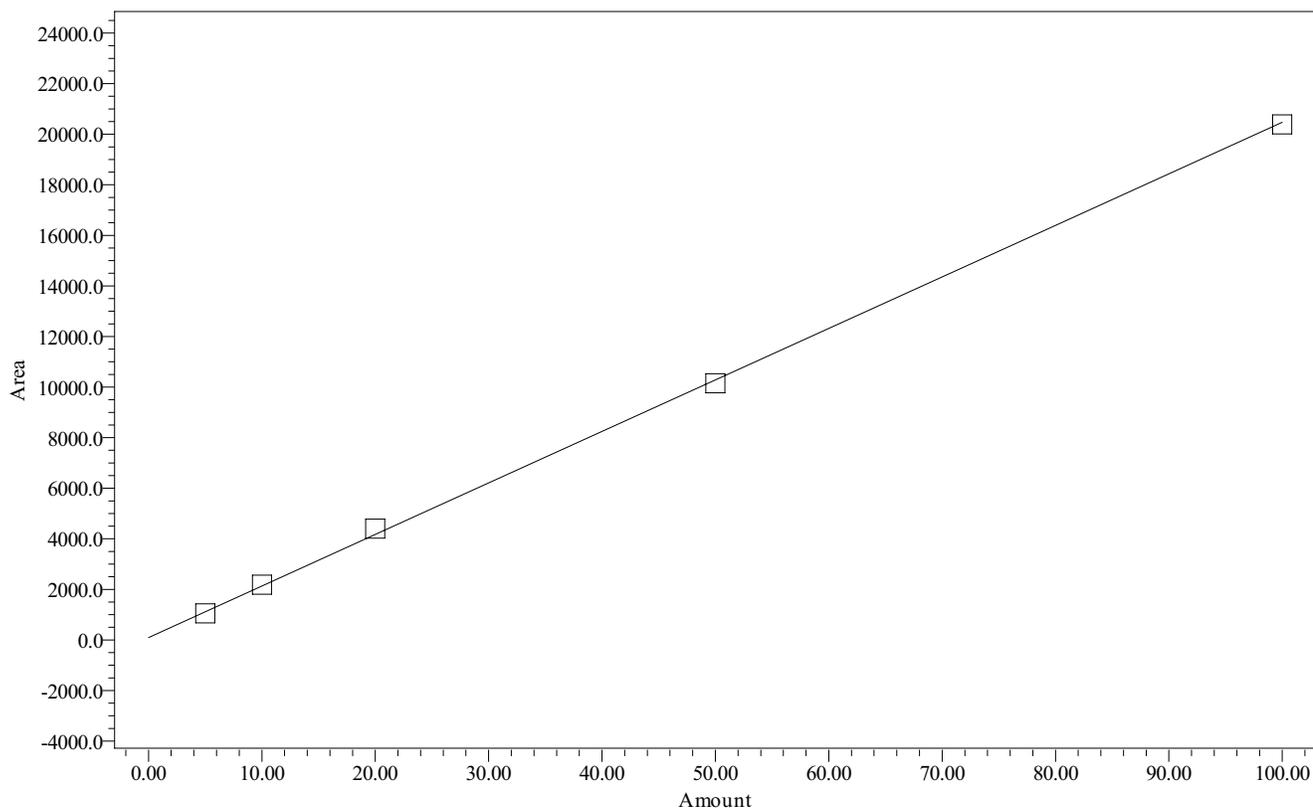
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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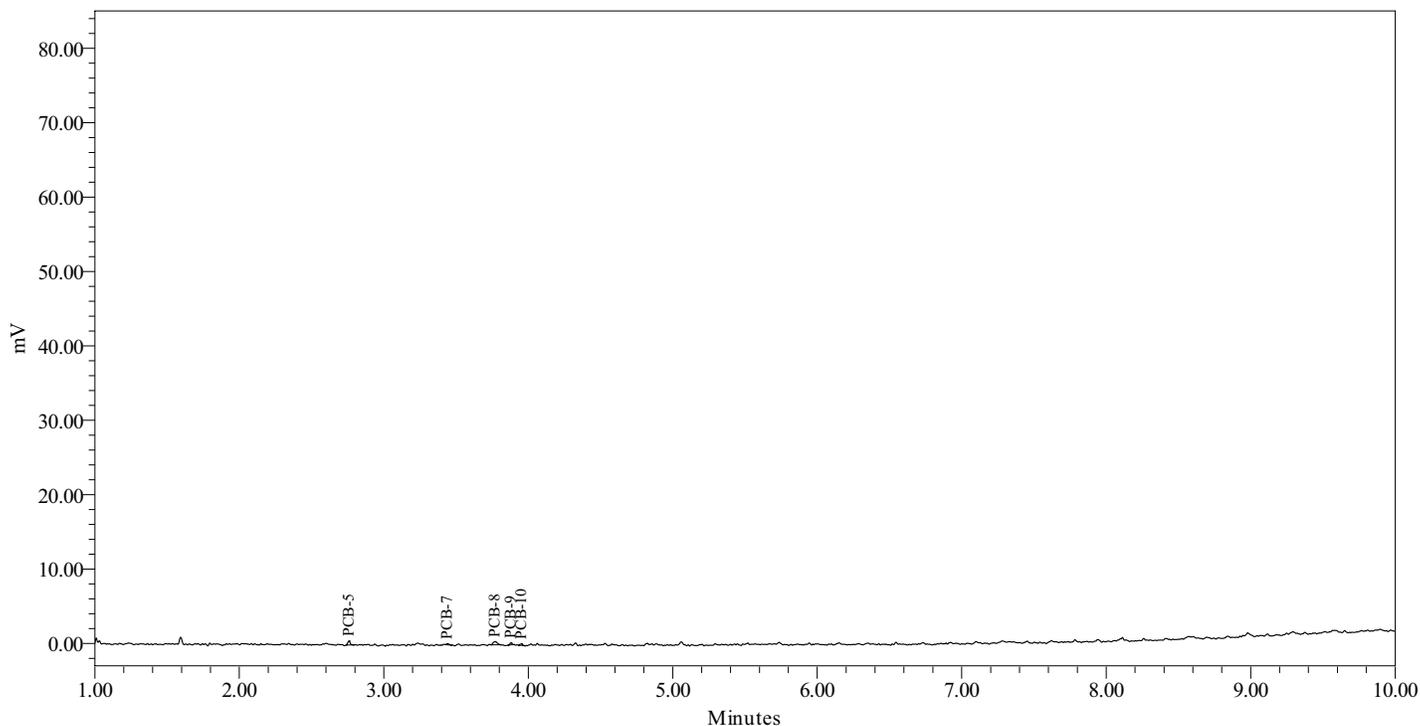
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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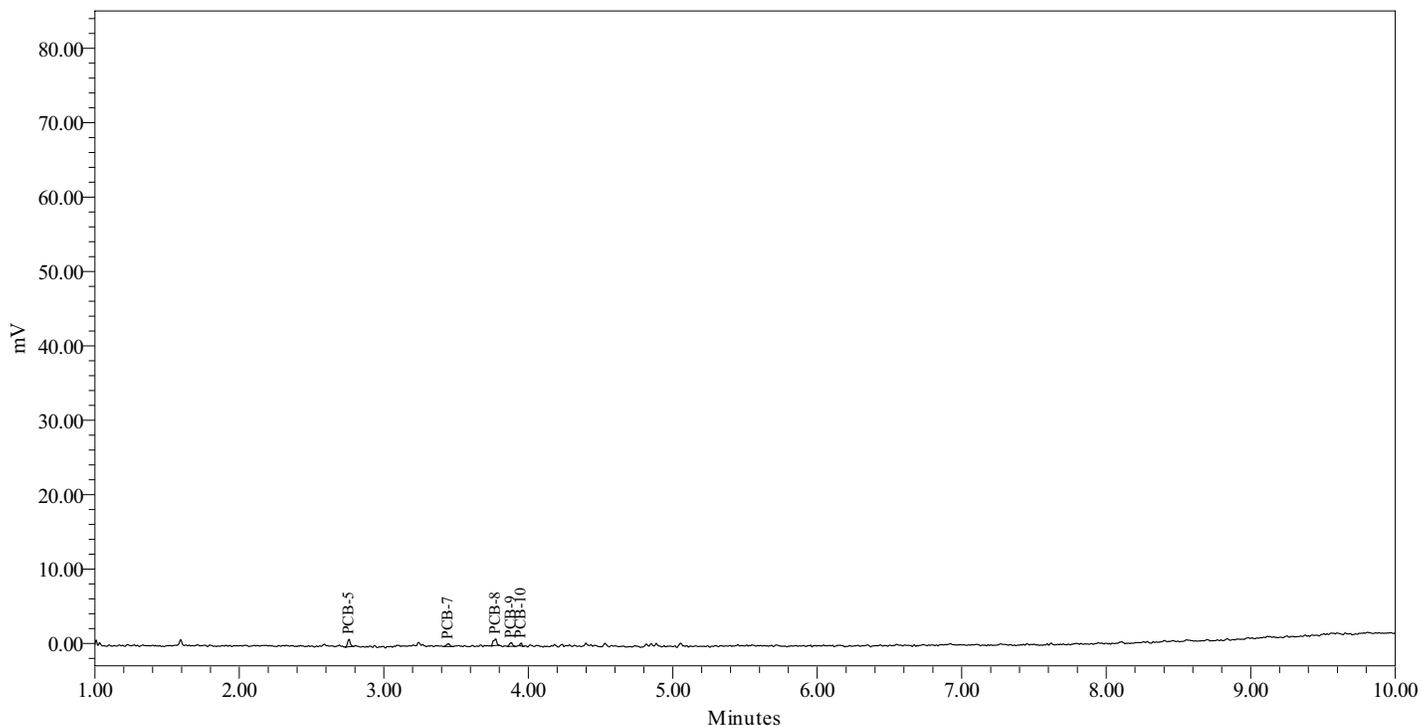
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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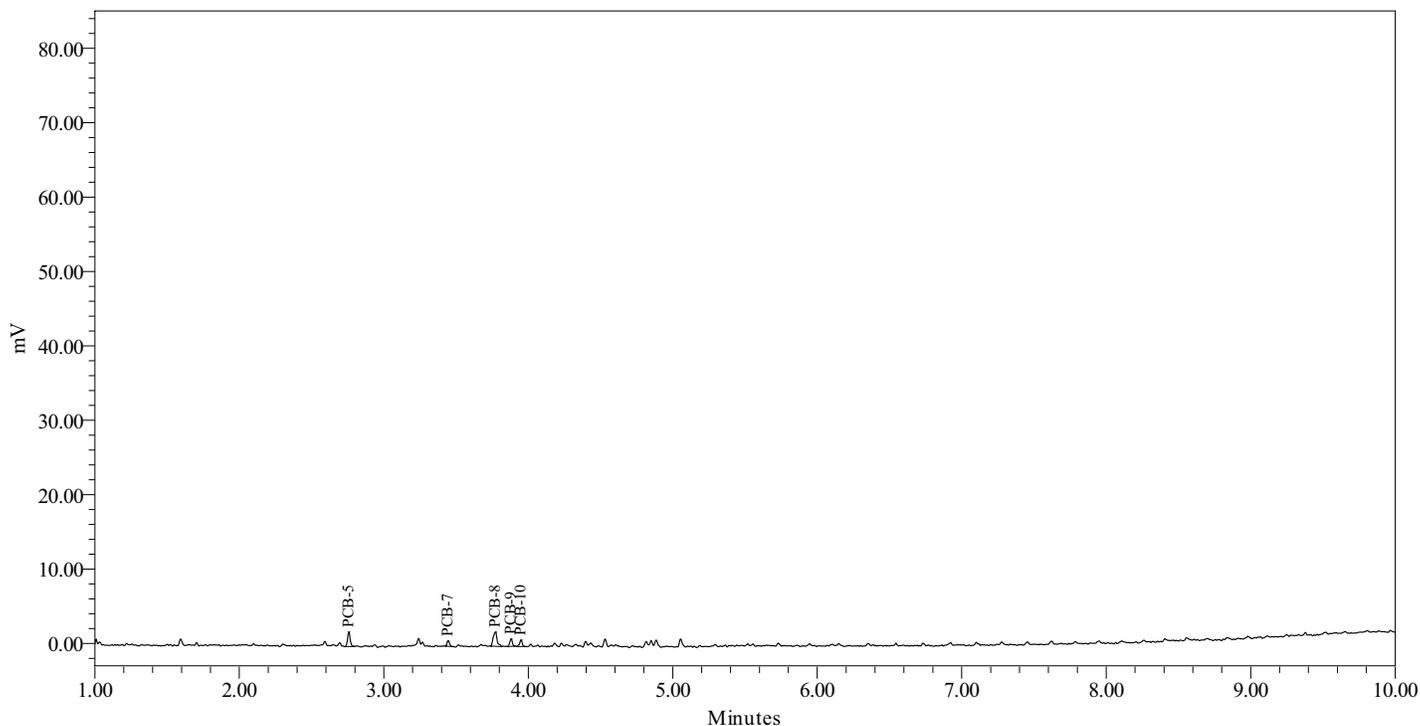
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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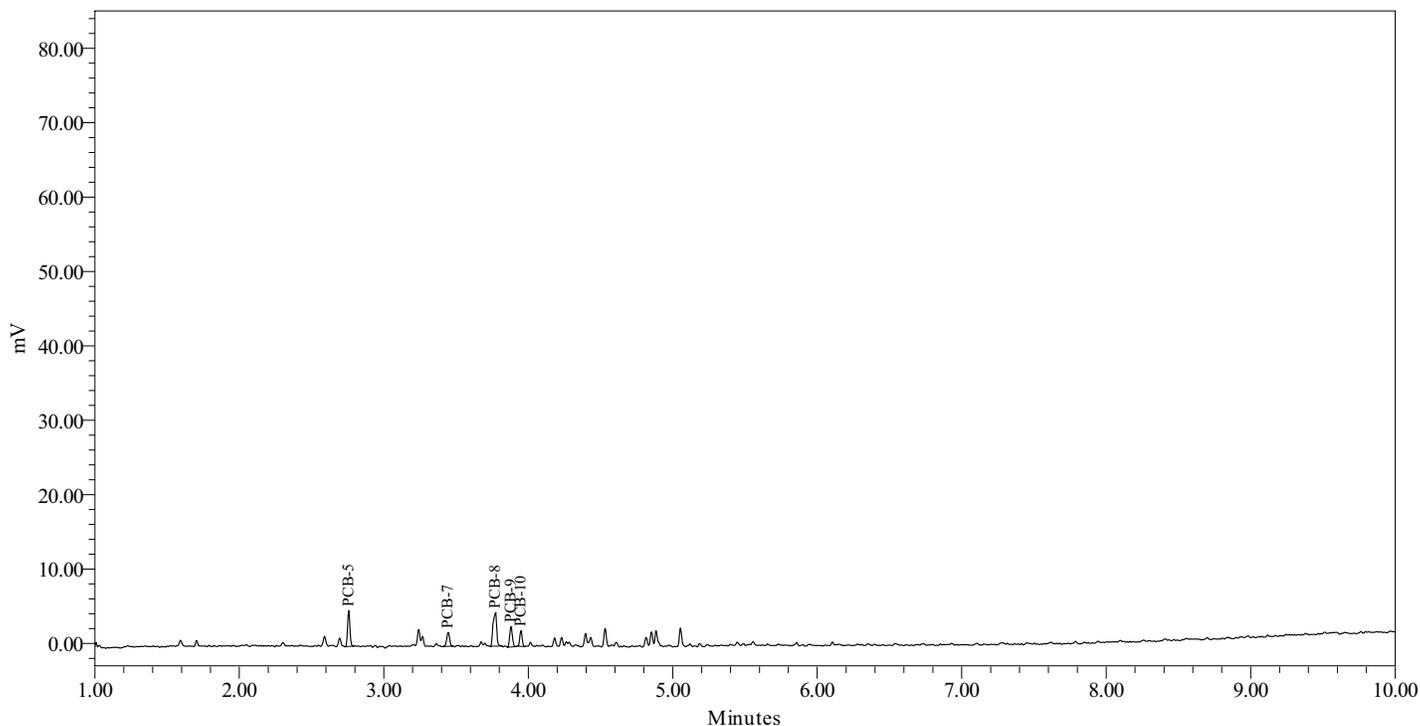
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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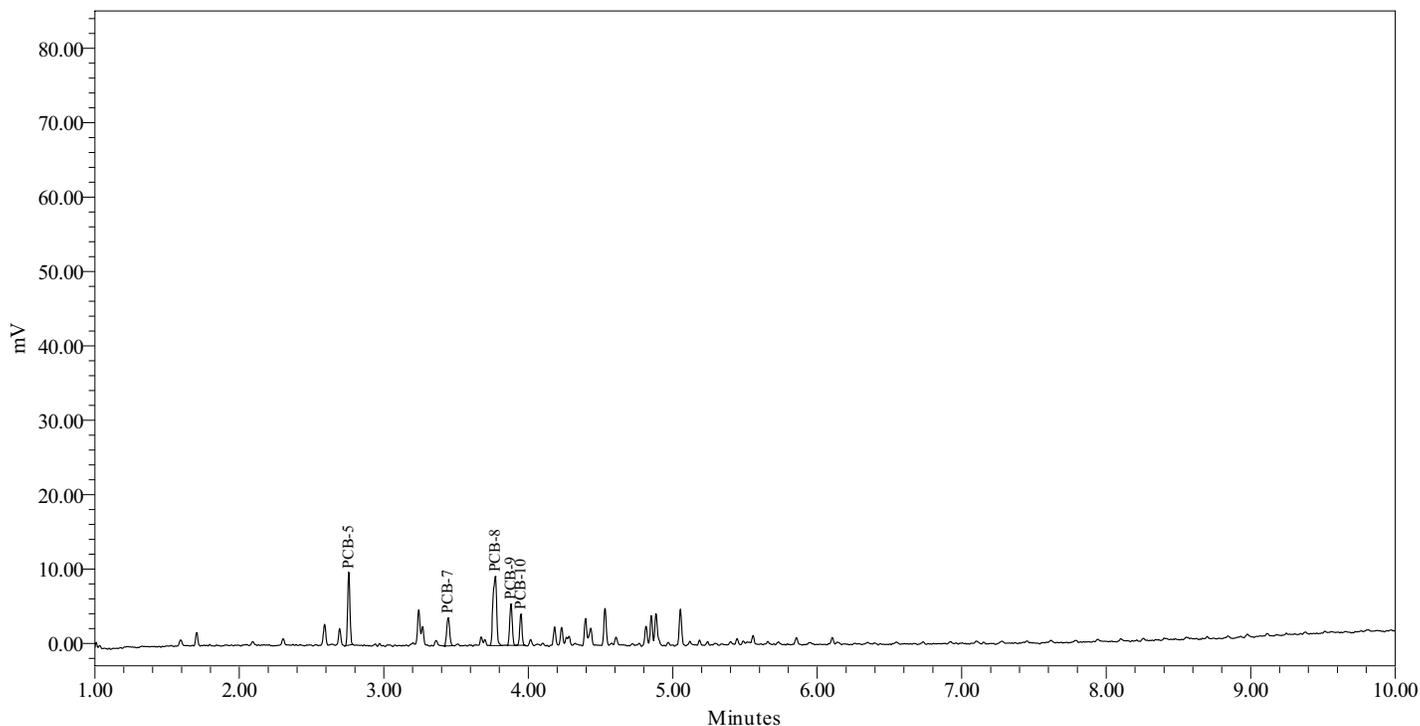
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

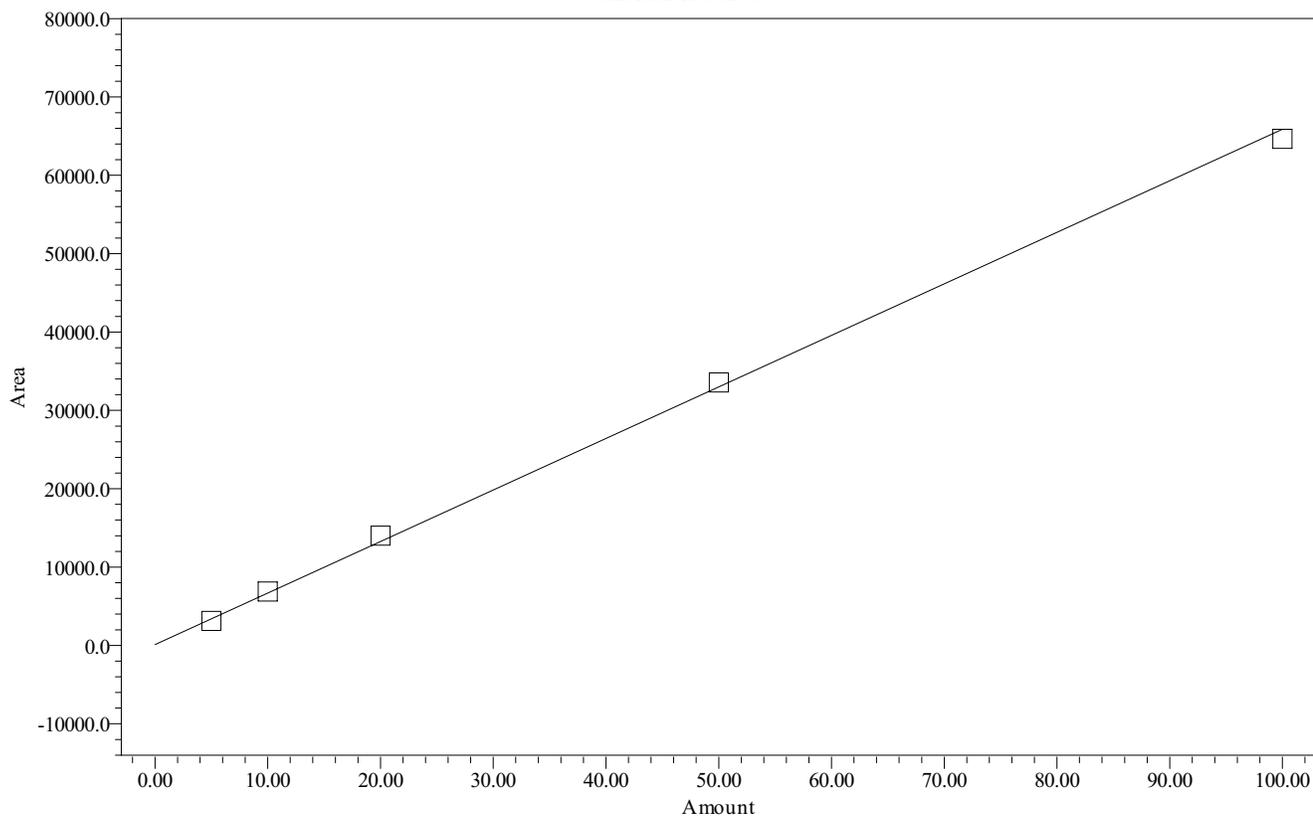
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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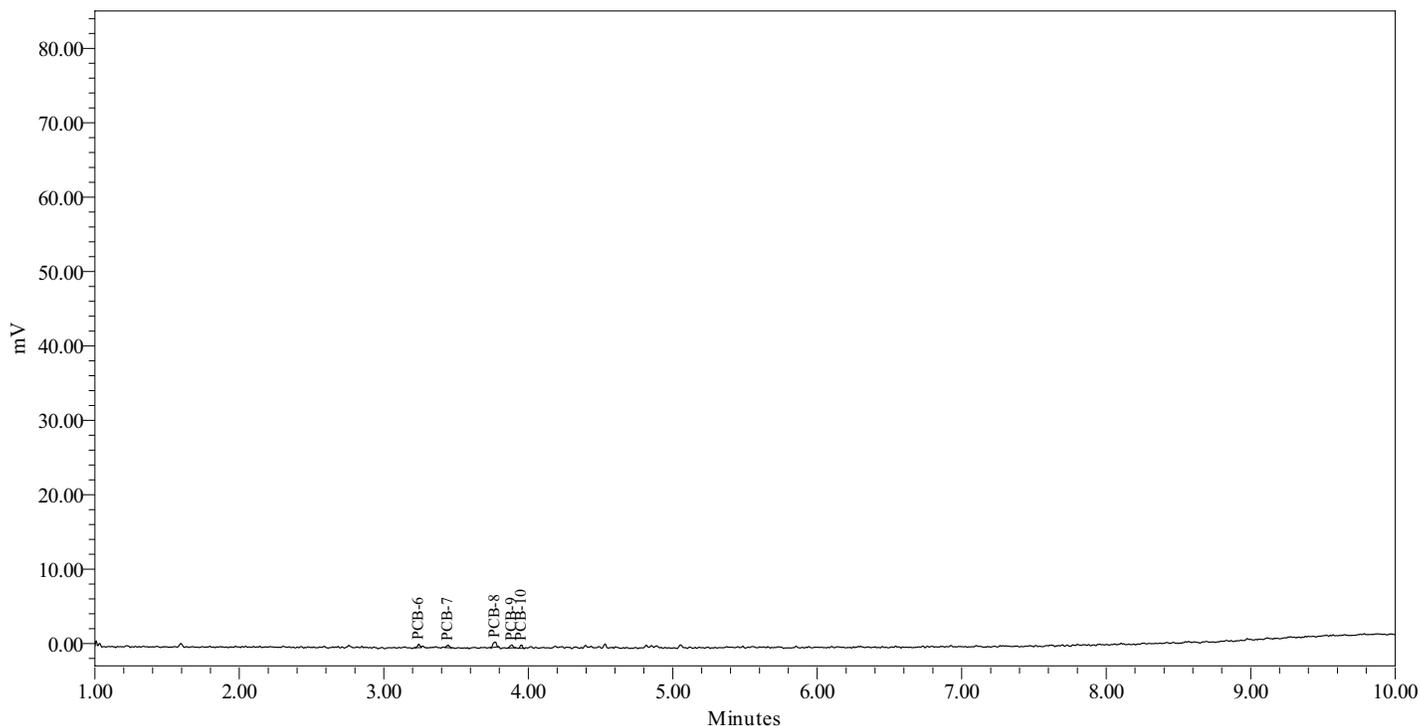
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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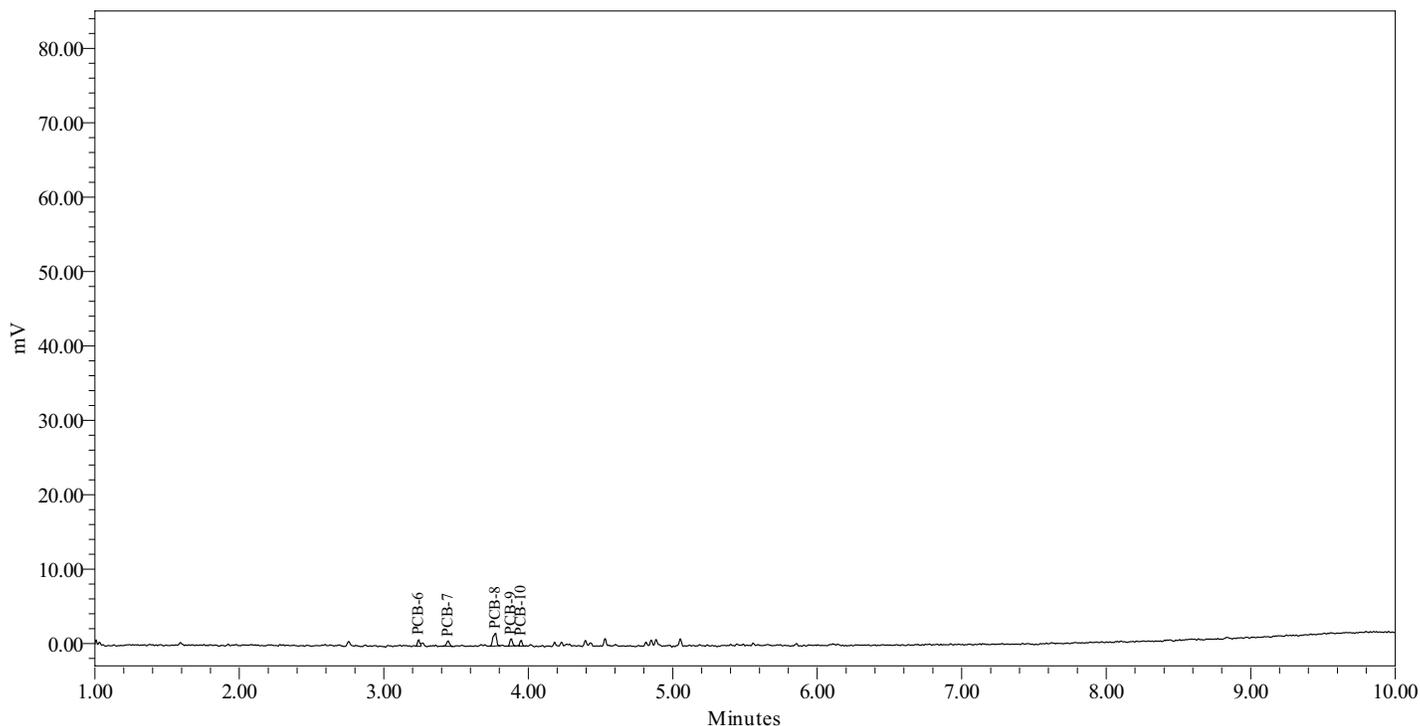
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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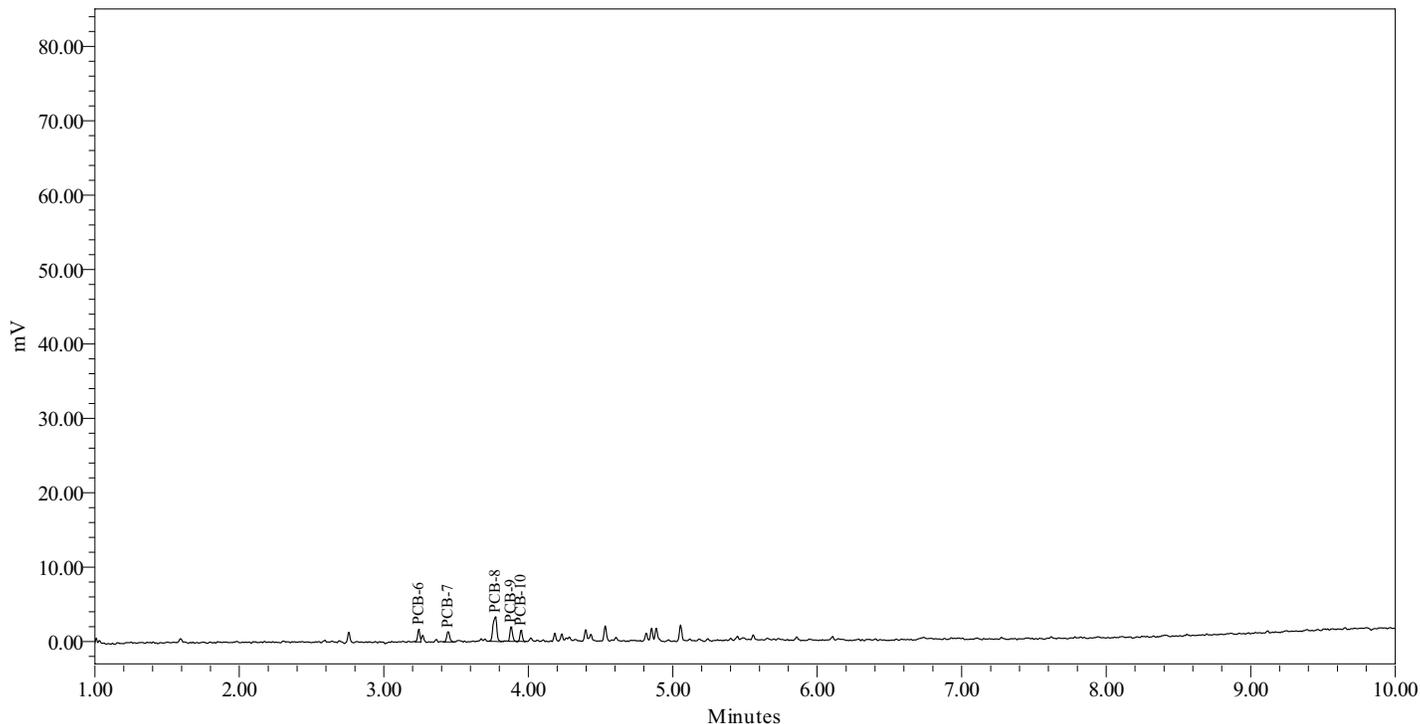
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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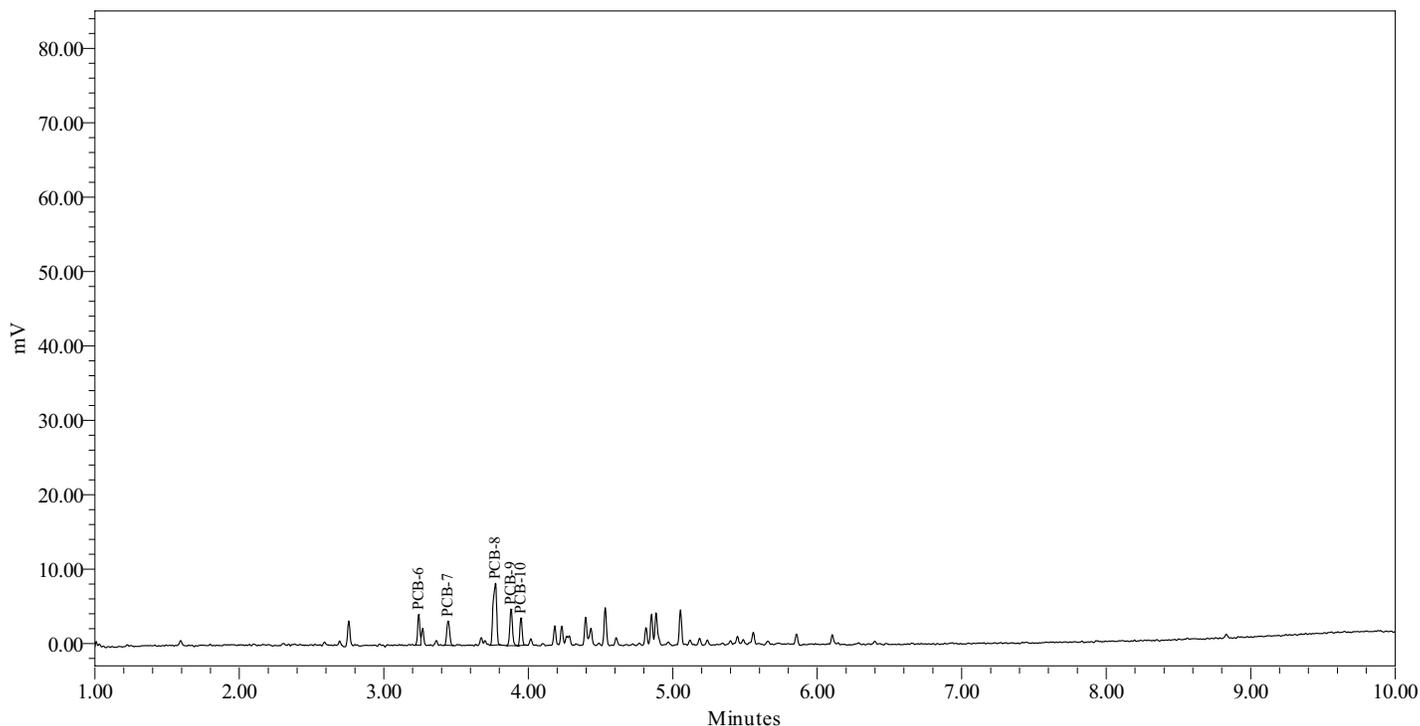
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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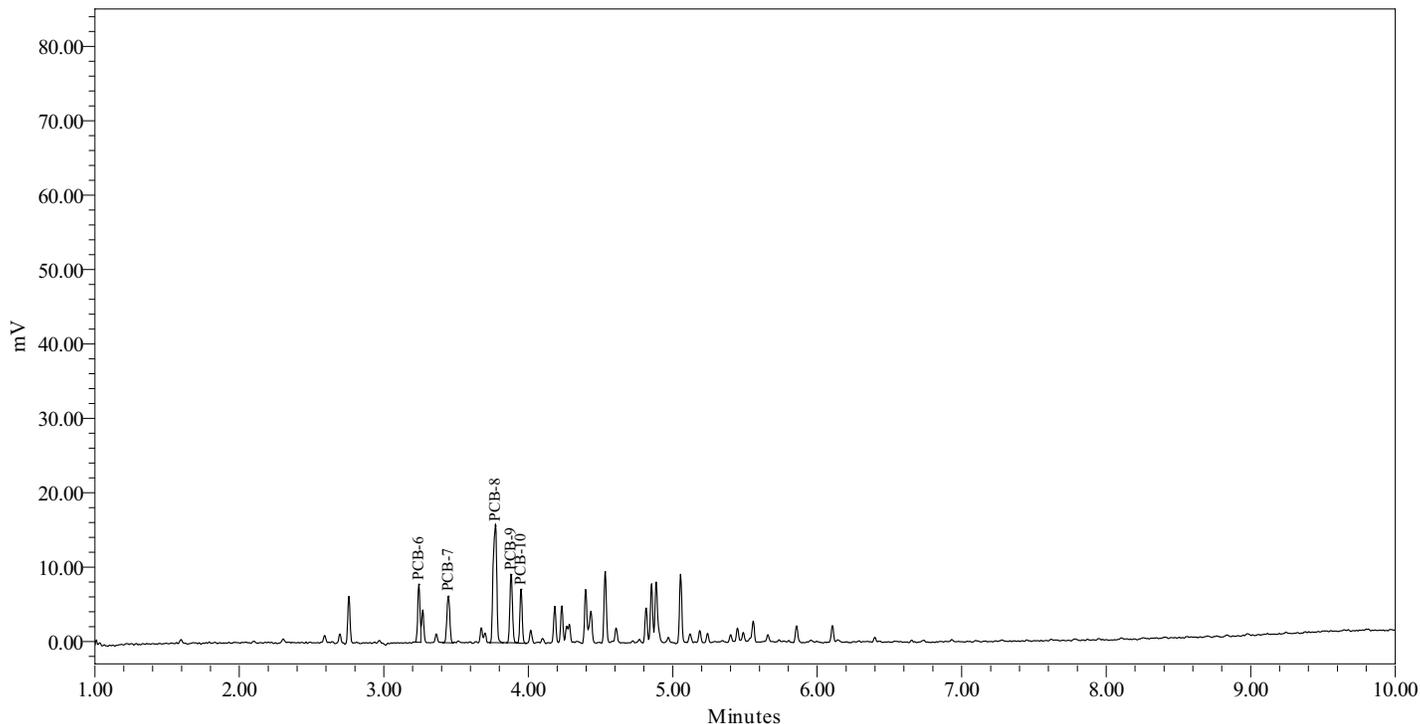
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

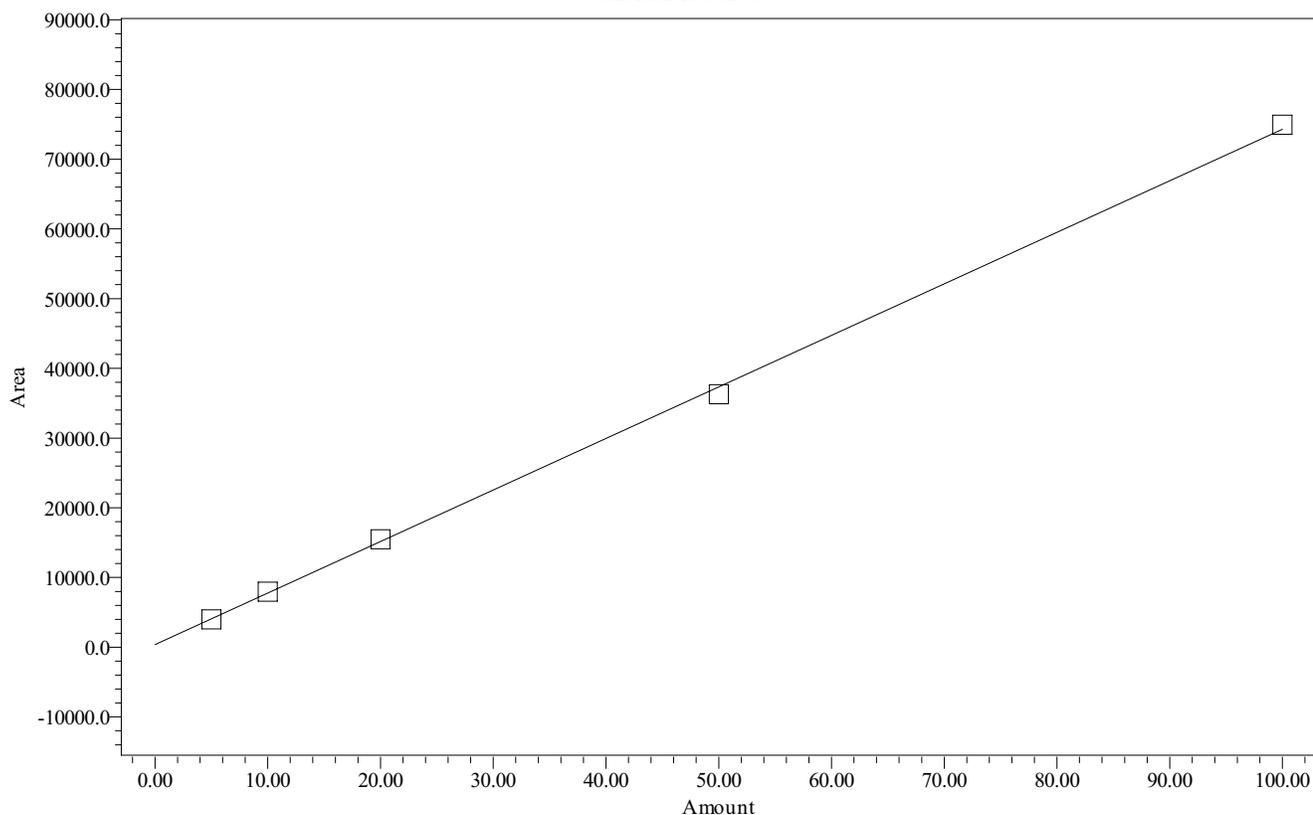
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

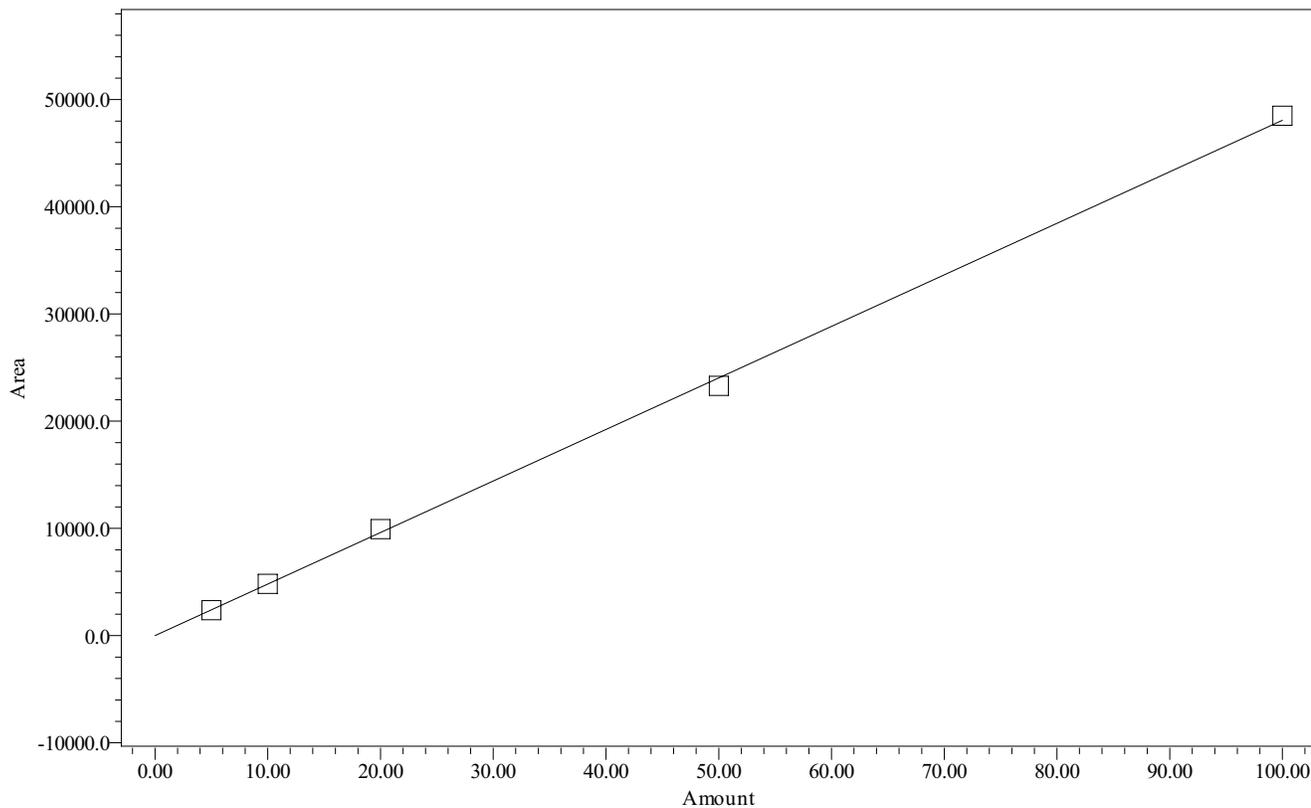
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

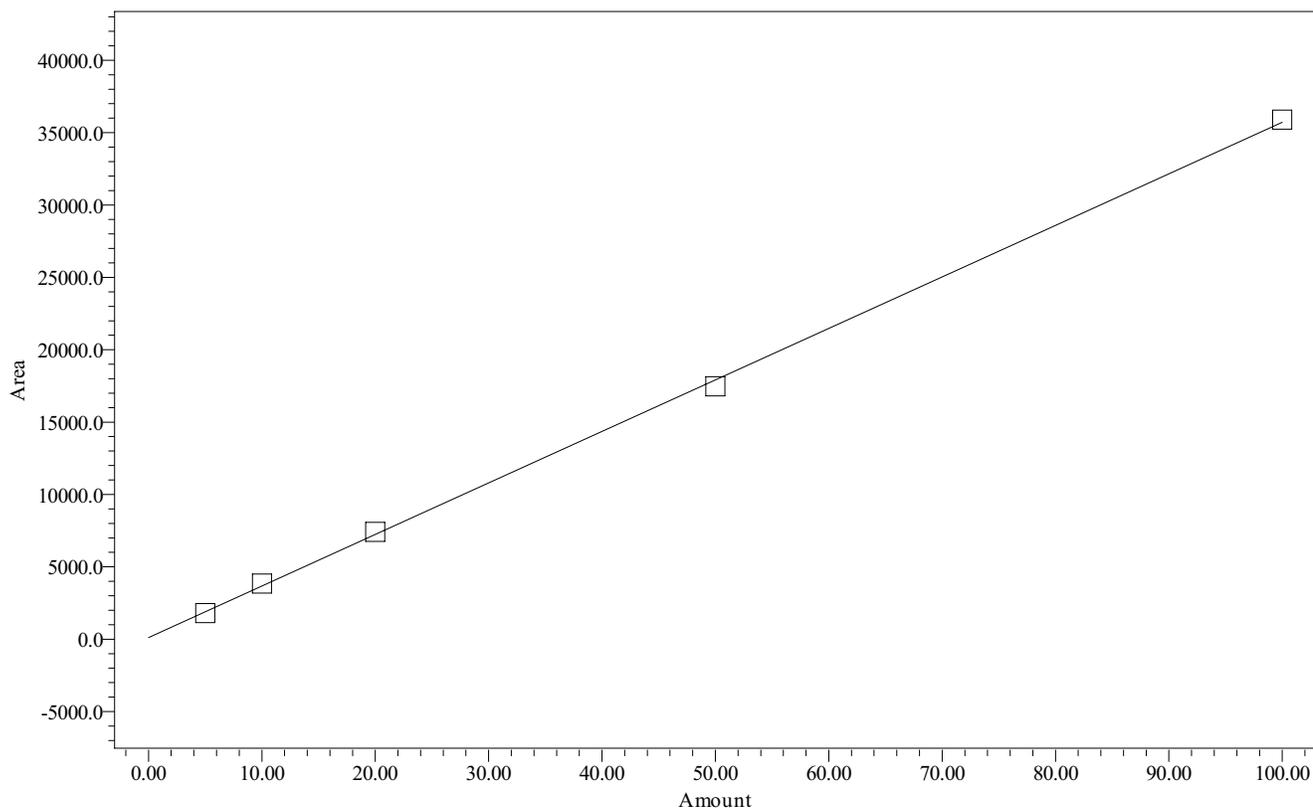
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|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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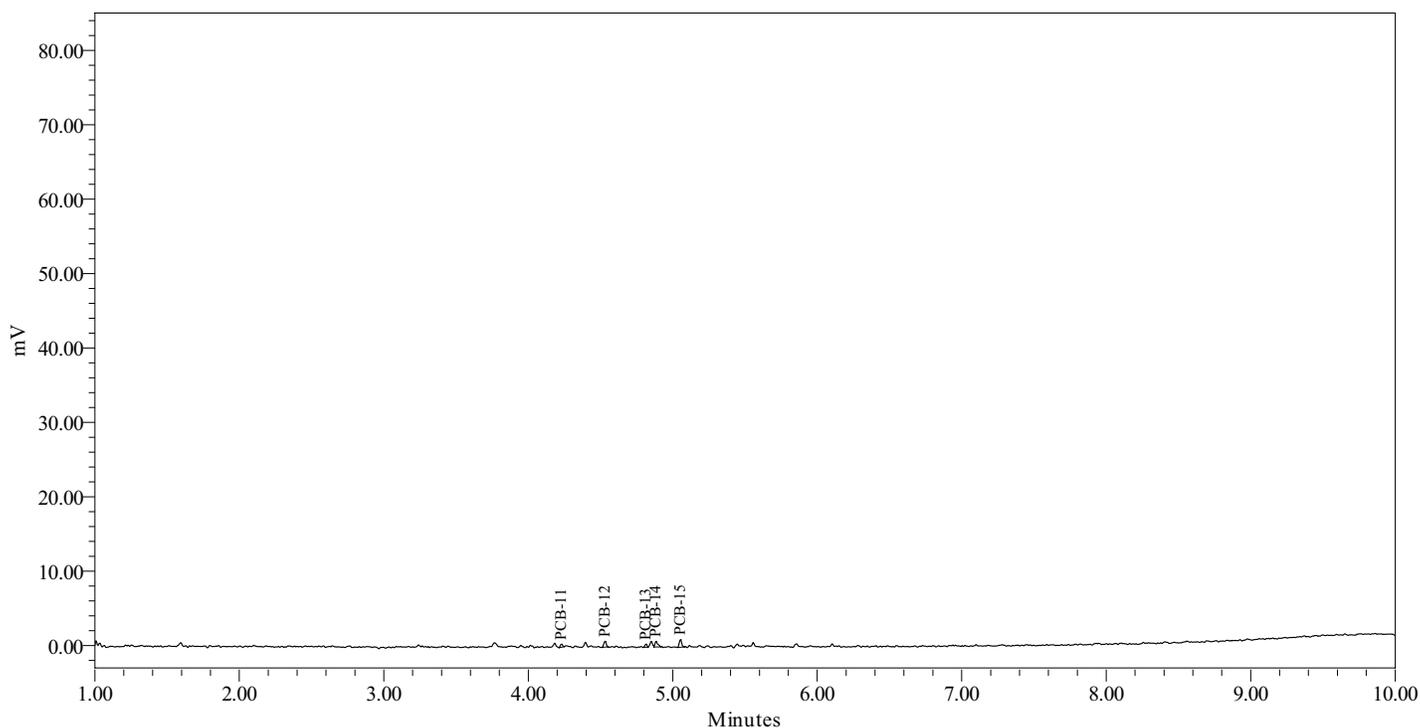
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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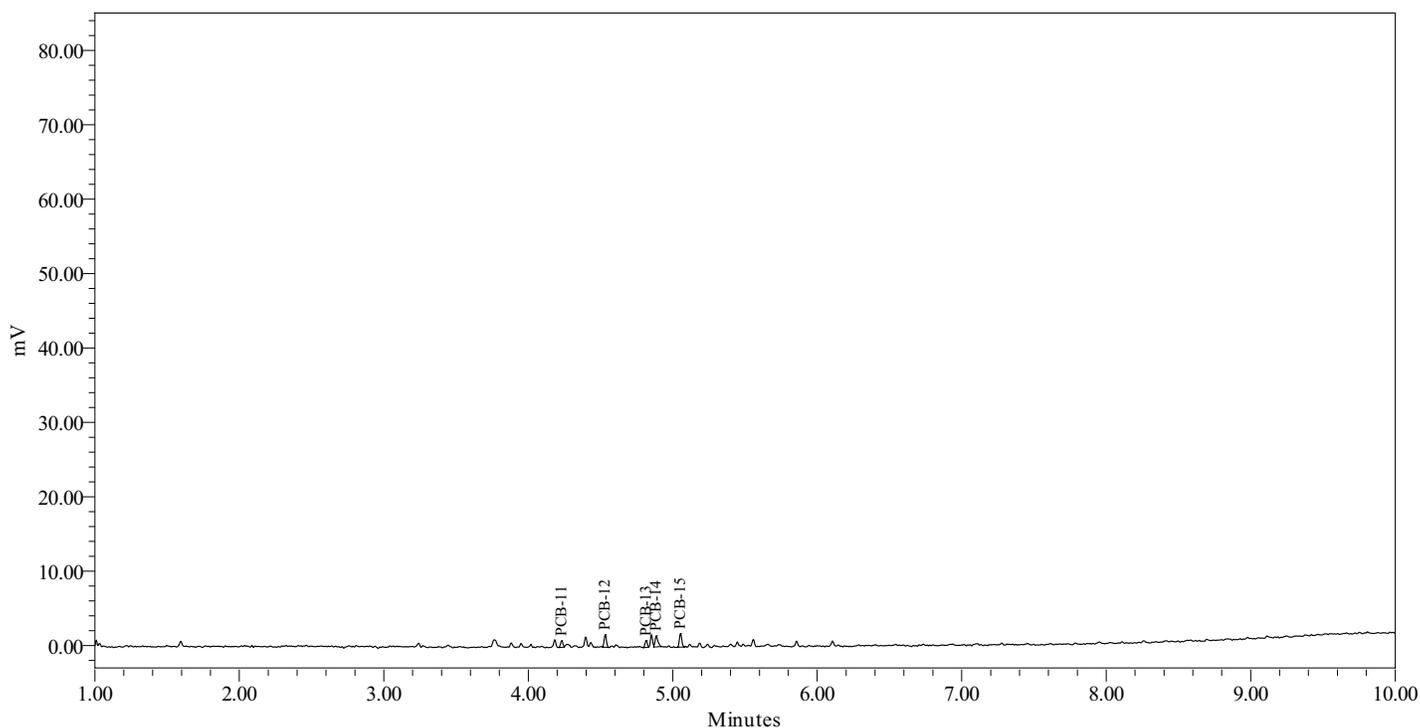
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.231          | bv               | 1011          |
| 2 | PCB-12    | 4.533          | bb               | 1808          |
| 3 | PCB-13    | 4.816          | bV               | 1021          |
| 4 | PCB-14    | 4.886          | Vb               | 2005          |
| 5 | PCB-15    | 5.054          | bb               | 2102          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 7948                | 10.000               |
| 2 | A1248-11/15 | 4835                | 10.000               |
| 3 | A1248-14/15 | 3841                | 10.000               |



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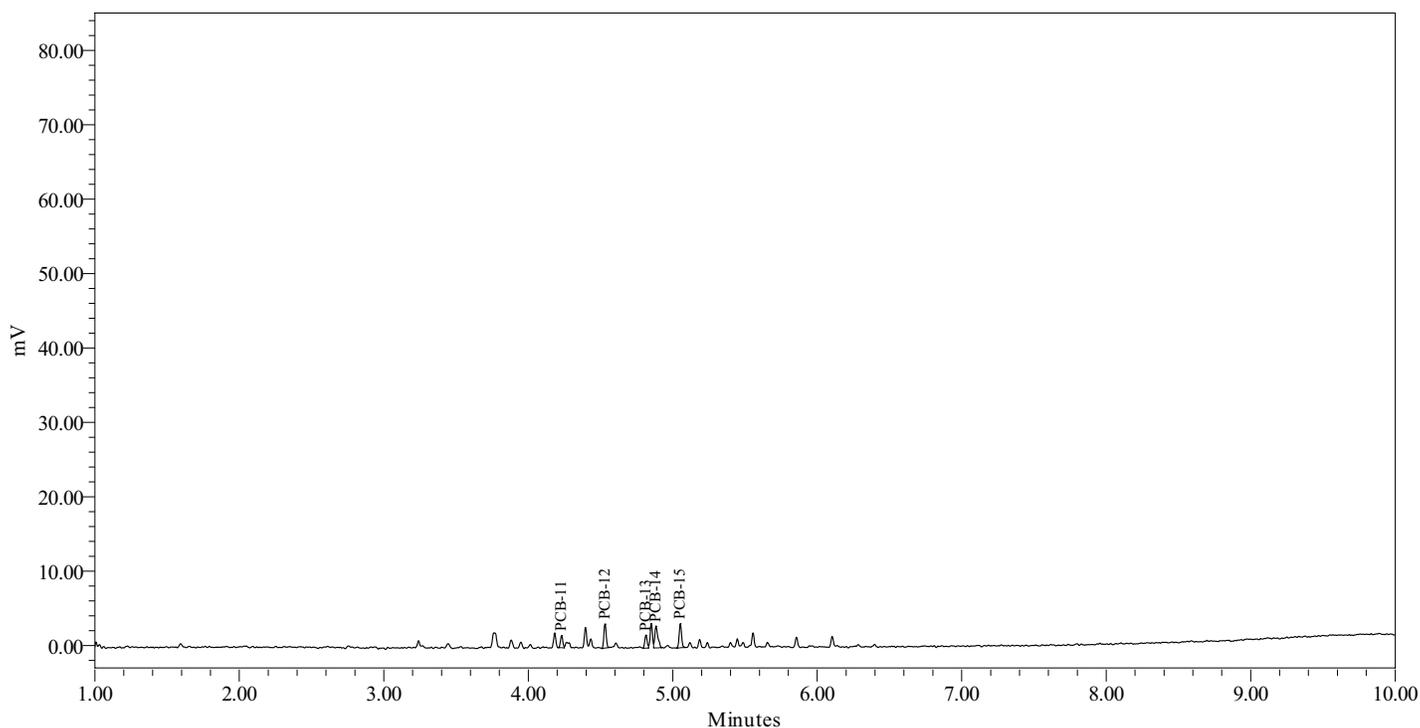
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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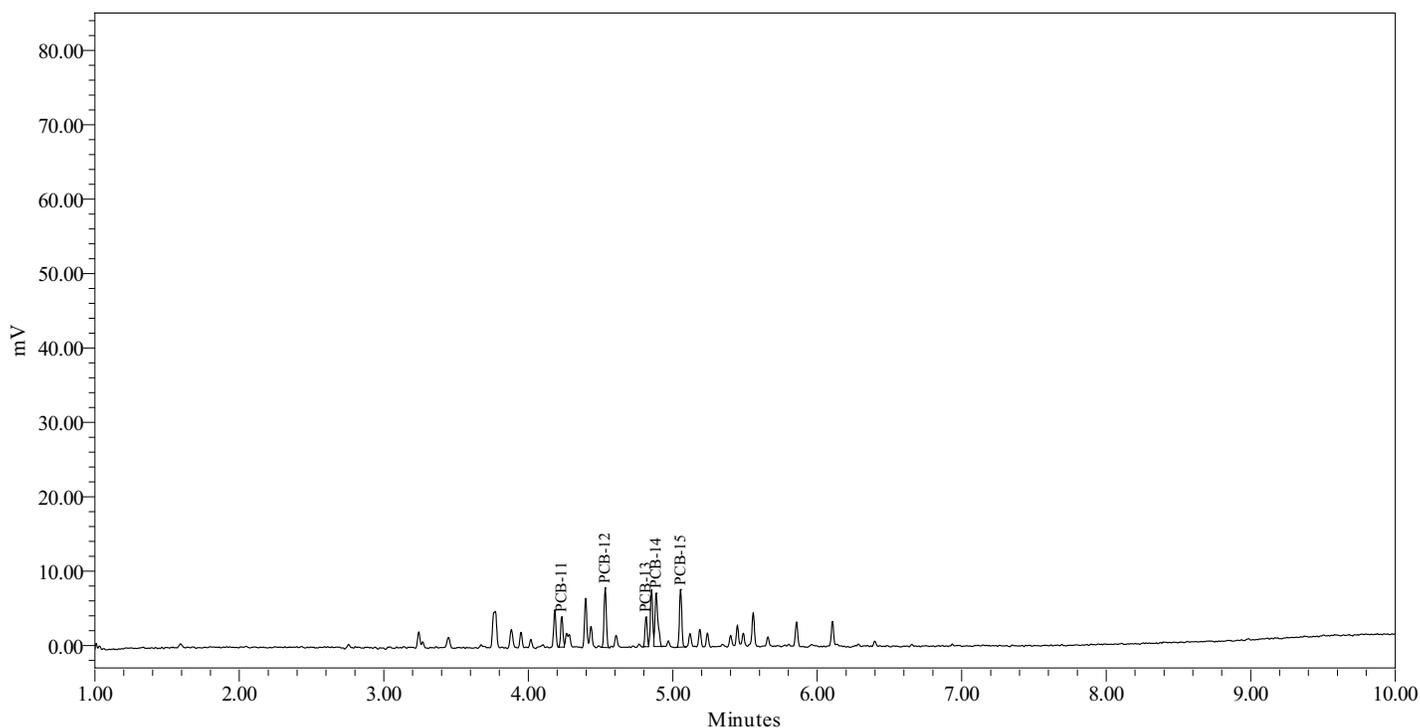
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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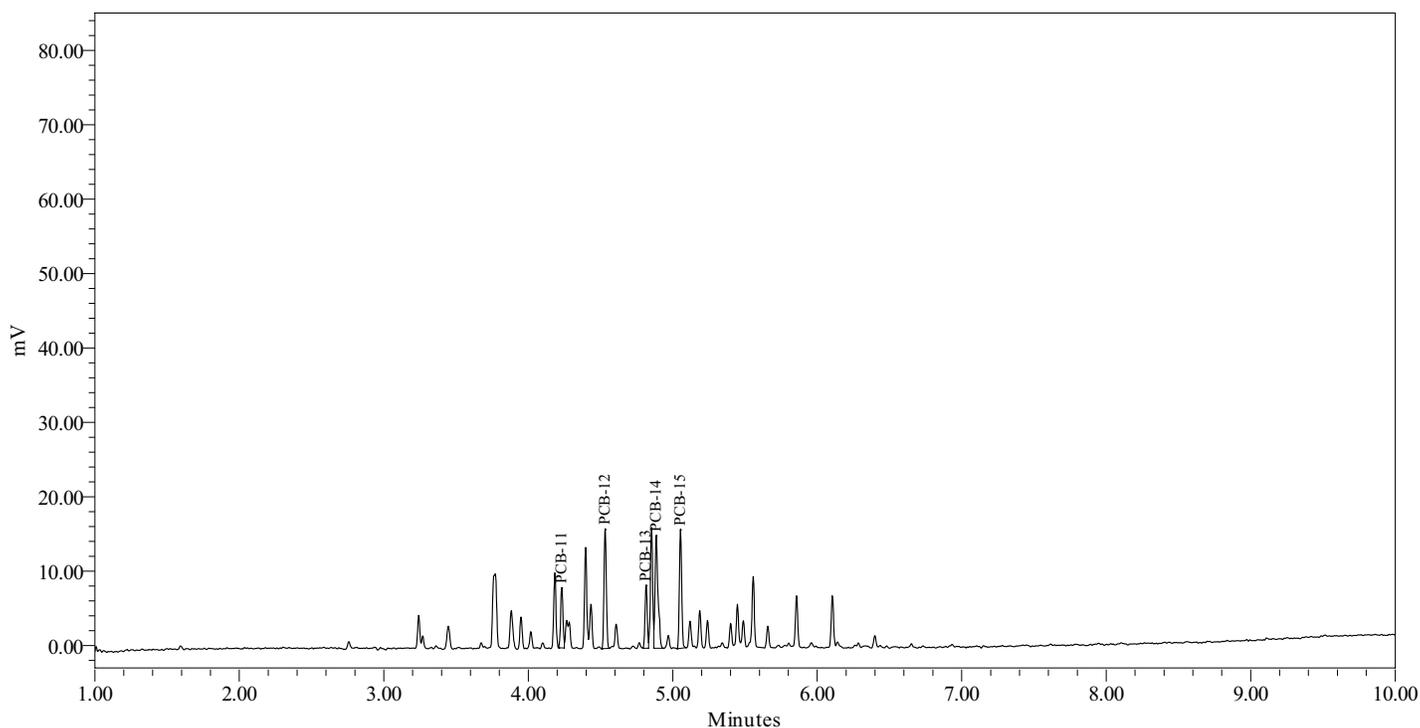
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

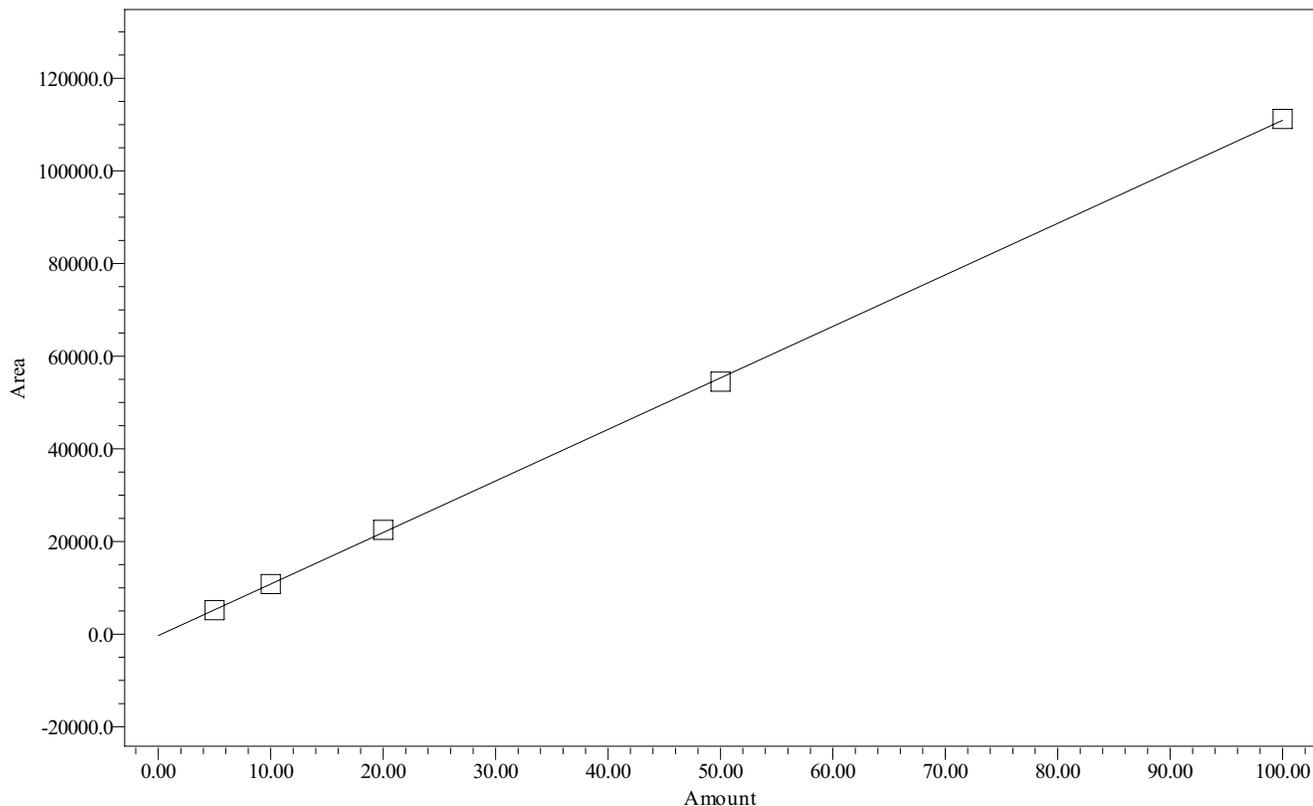
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

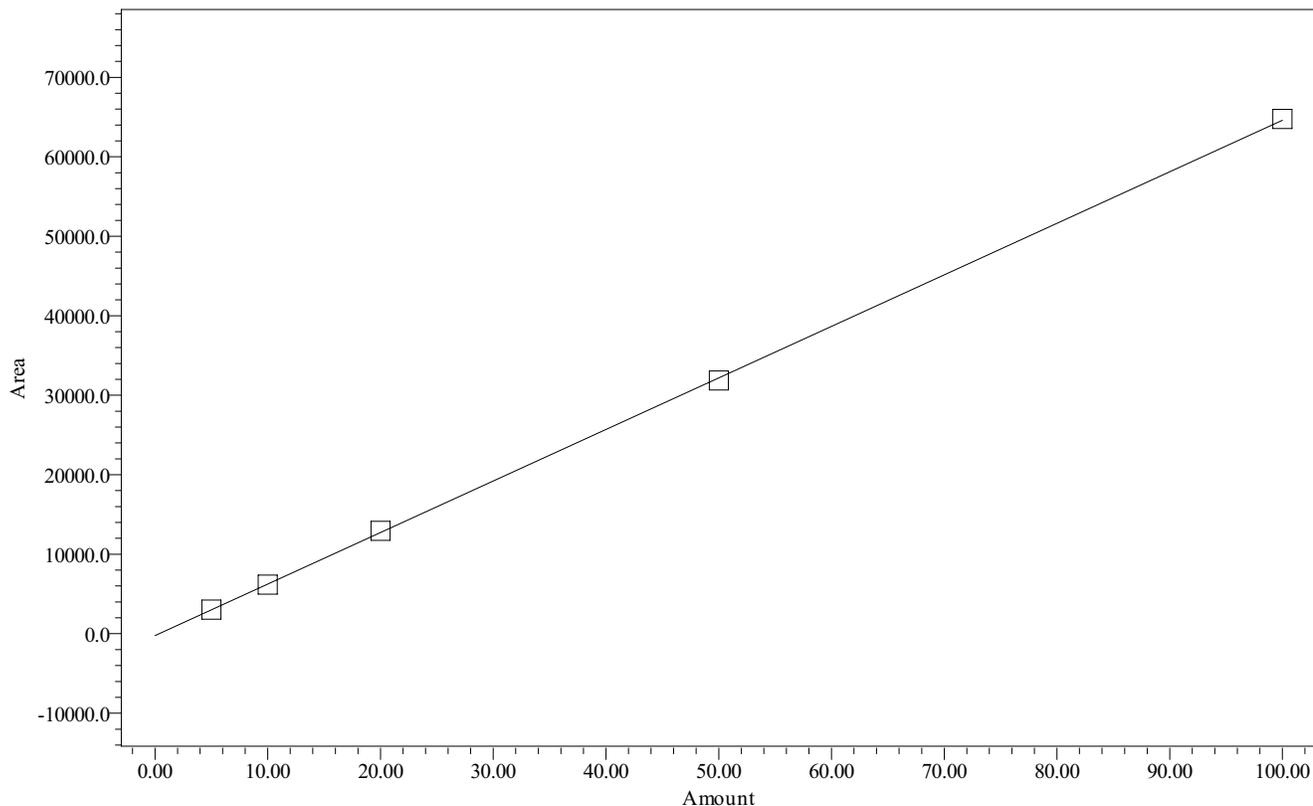
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

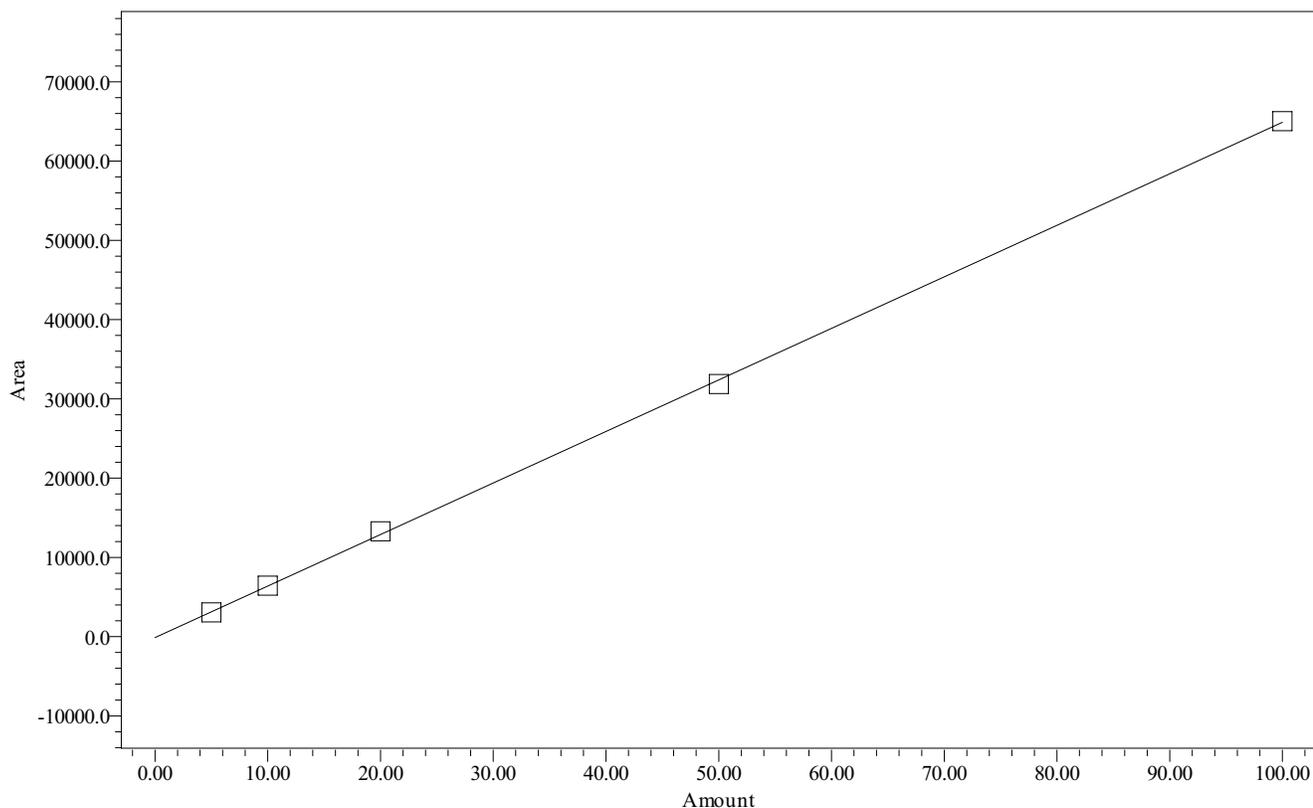
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



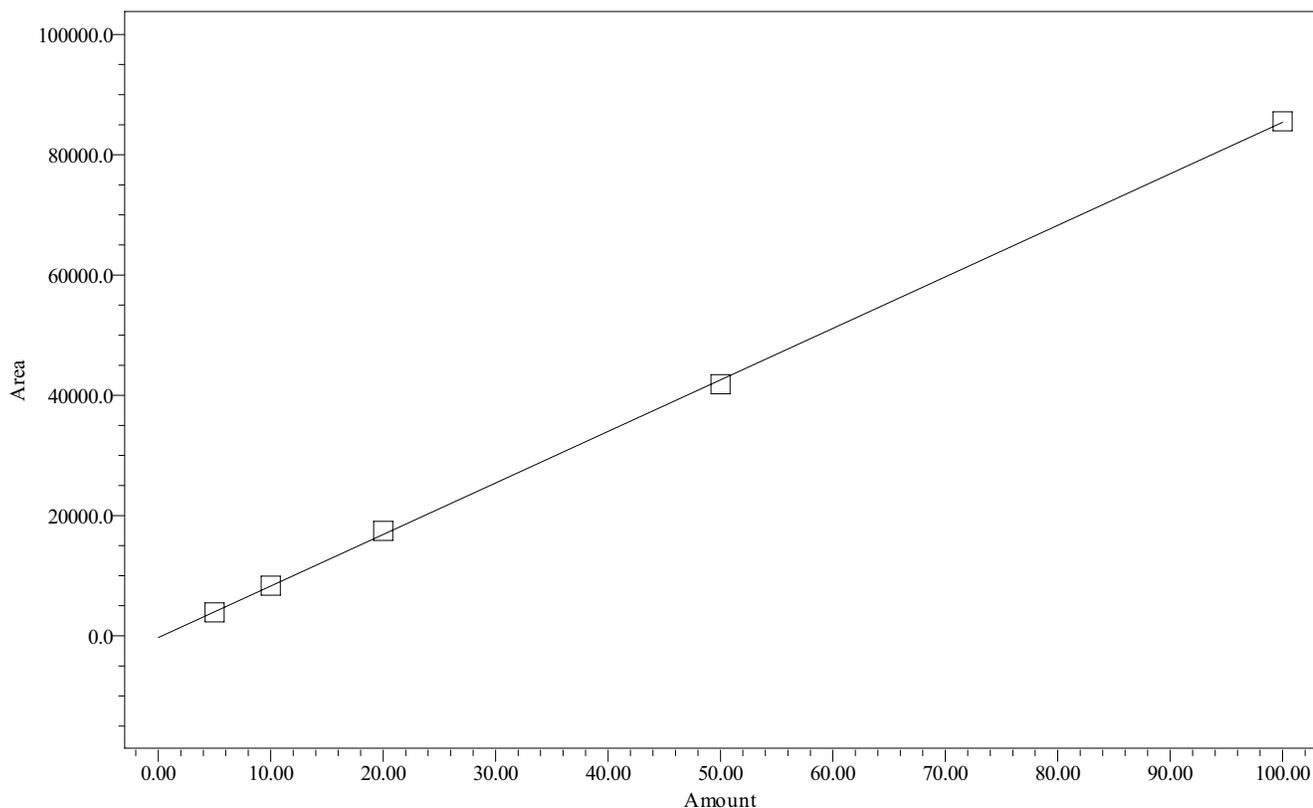
Point Table  
Peak: A1254-19/20

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00          | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00         | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00         | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00         | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00        | 65042    | 100.2       | 0.231       | No     | No     |

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|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



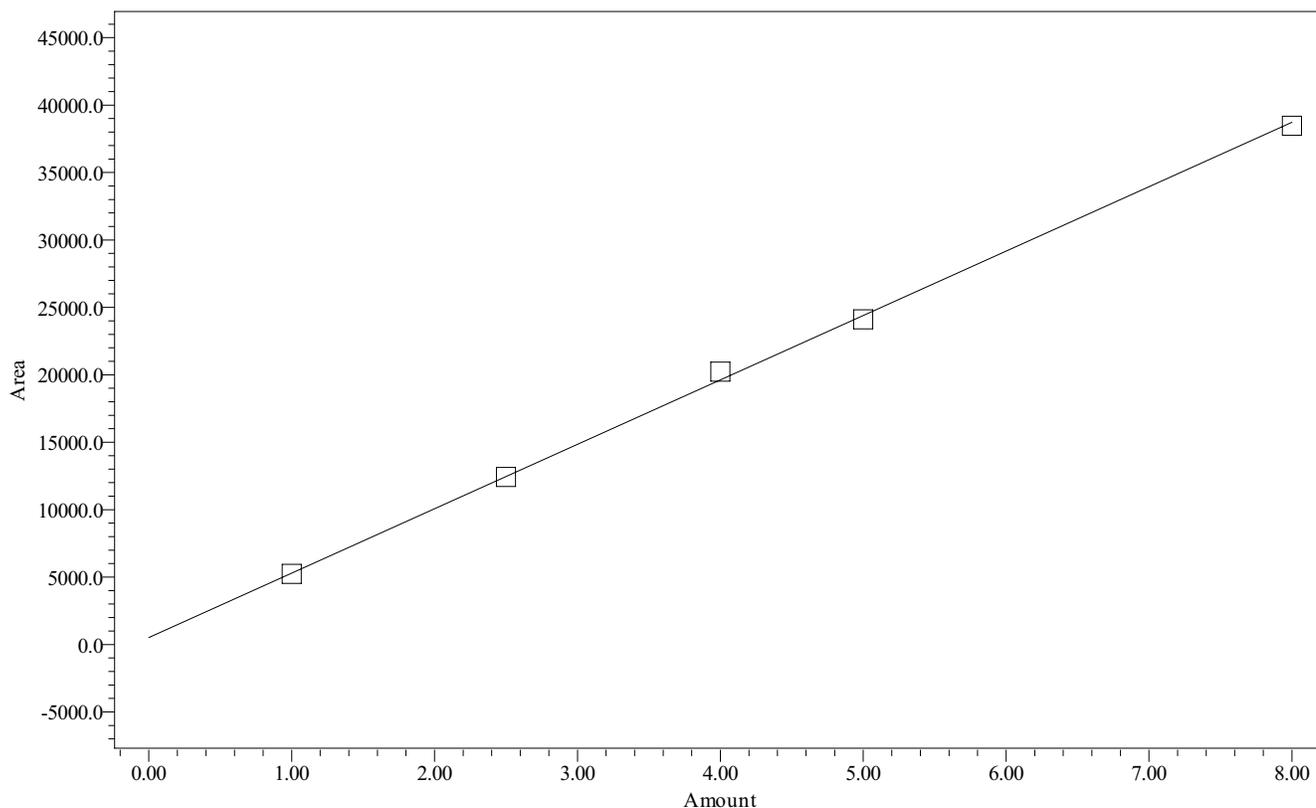
Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



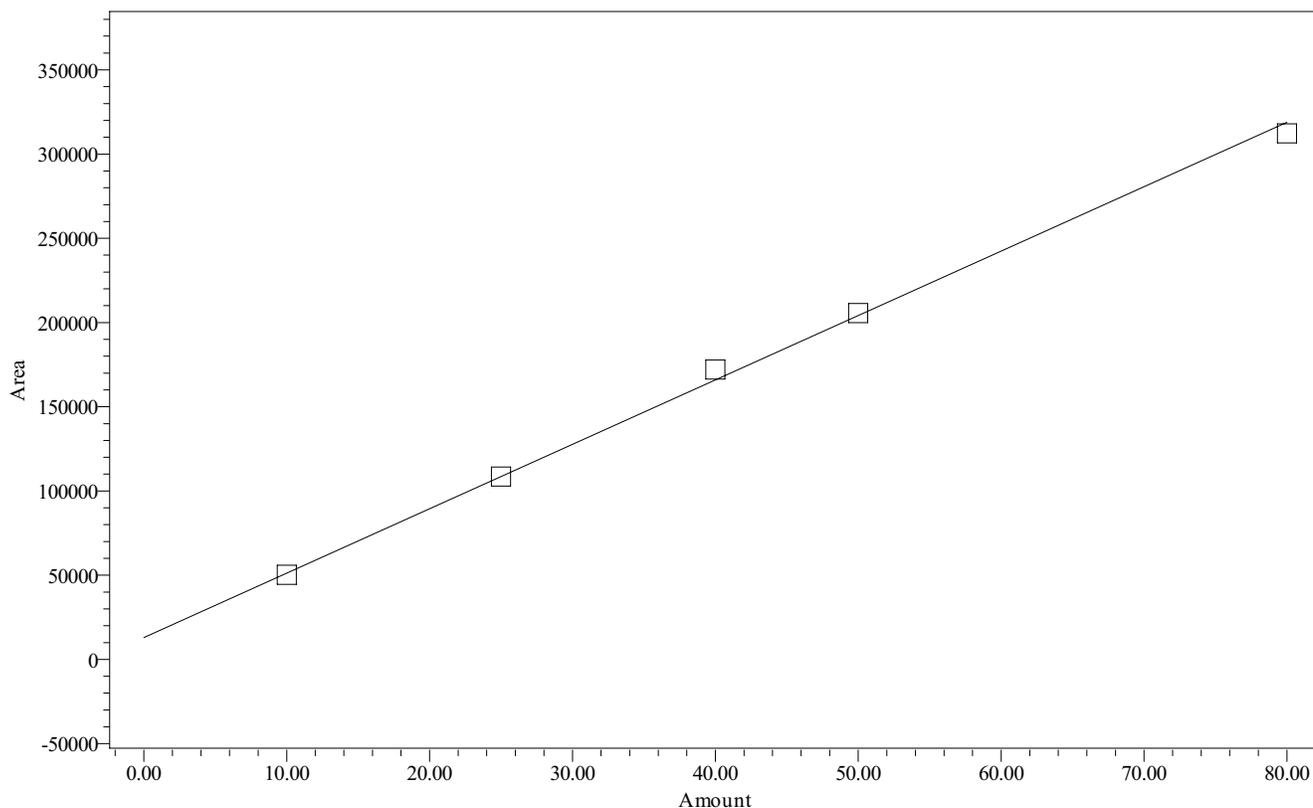
Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

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|                    |                          |   |              |
|--------------------|--------------------------|---|--------------|
| Name:              | DCBP                     | Coefficient constant A:                       | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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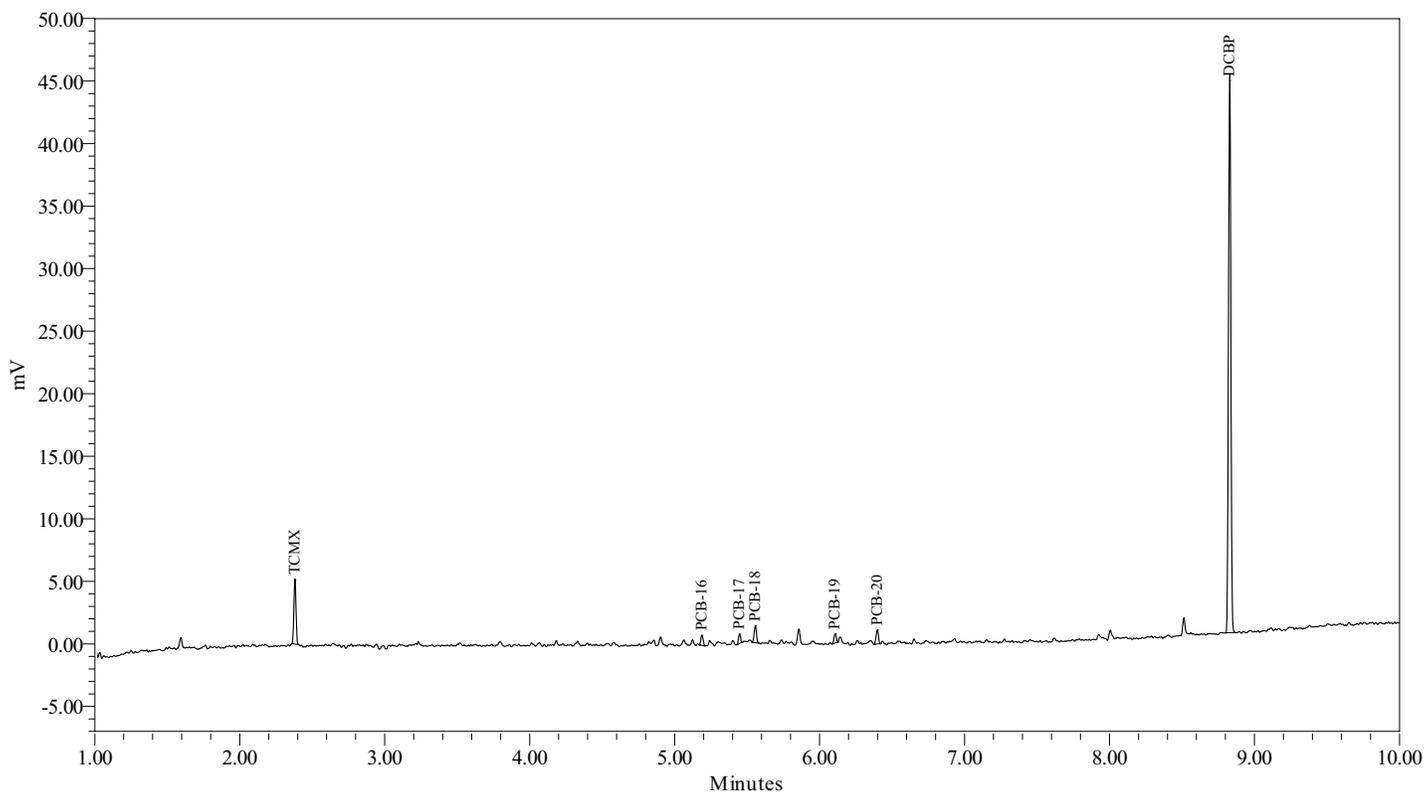
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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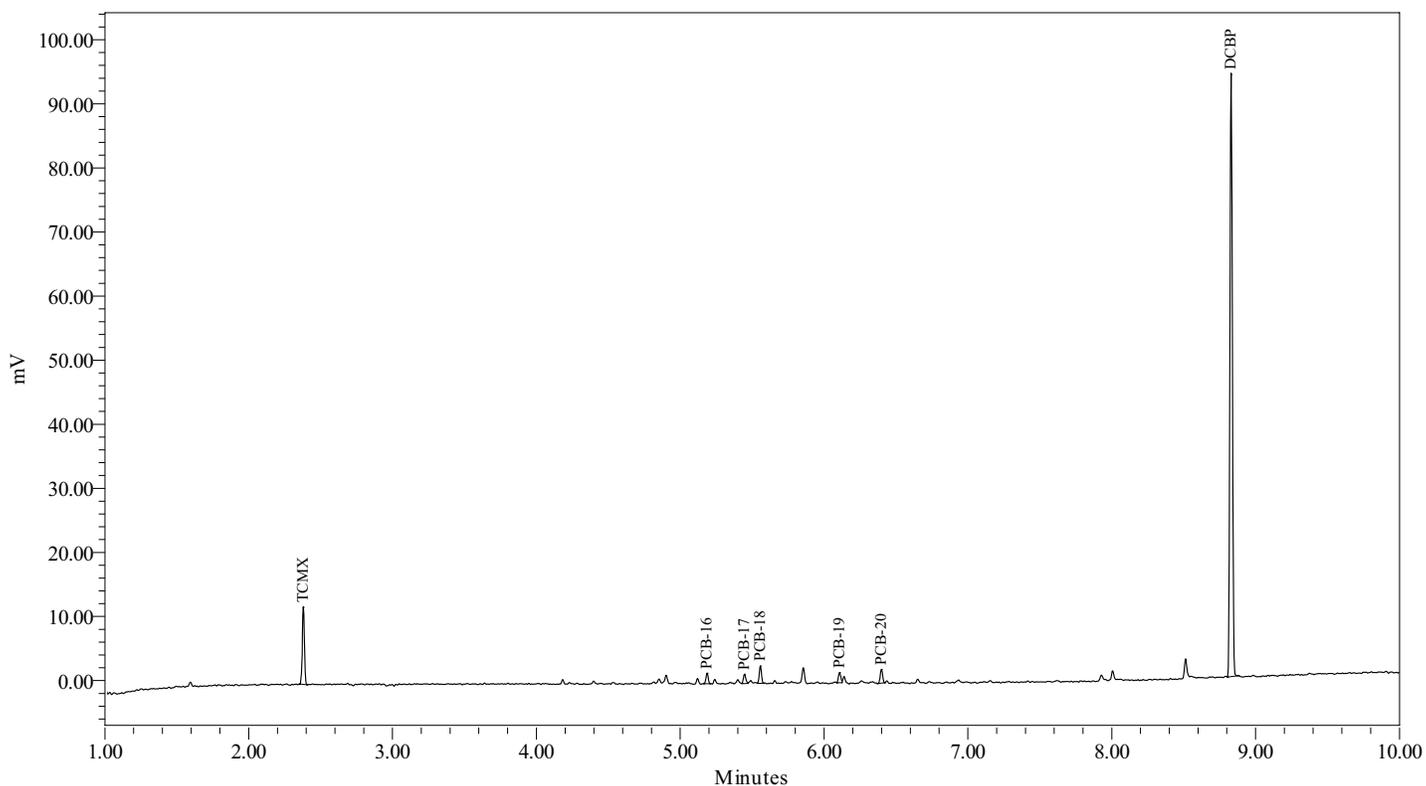
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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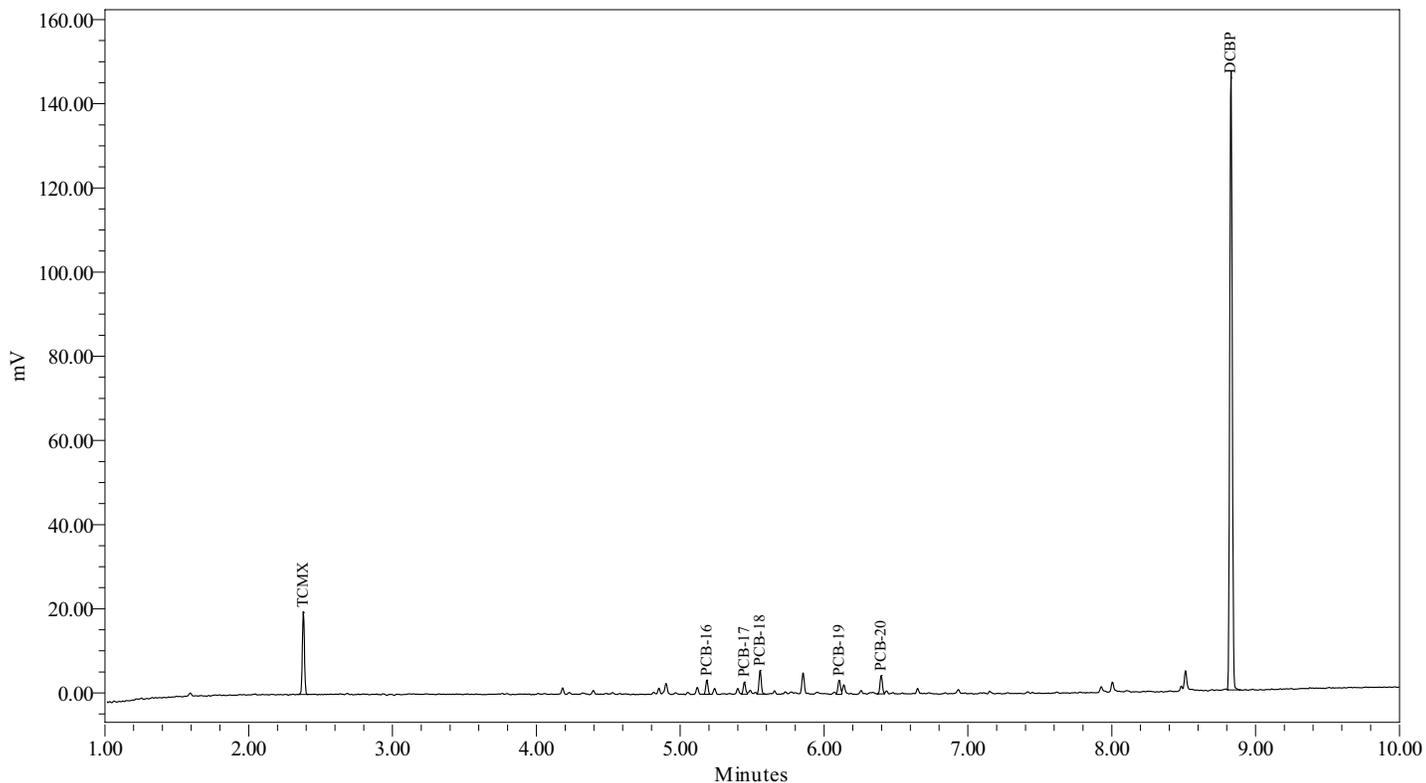
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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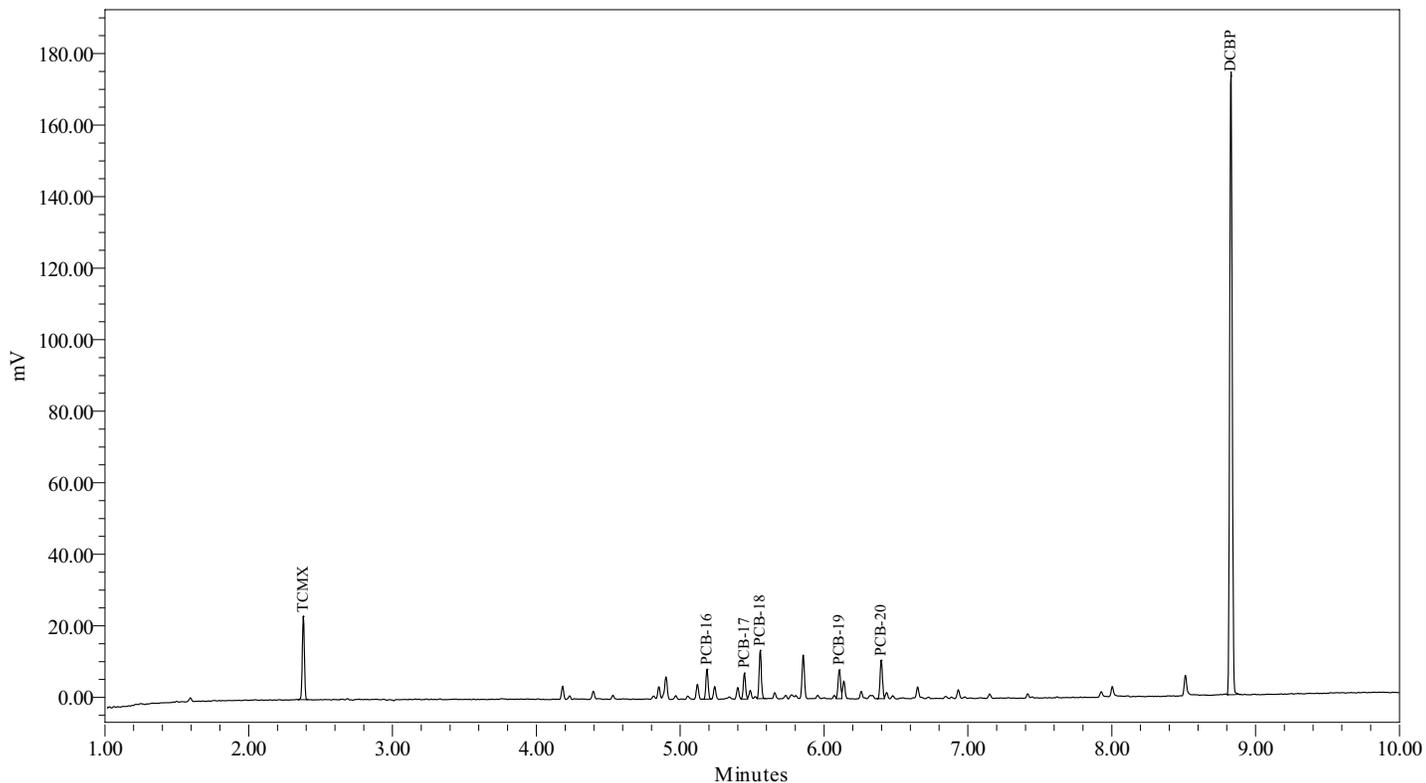
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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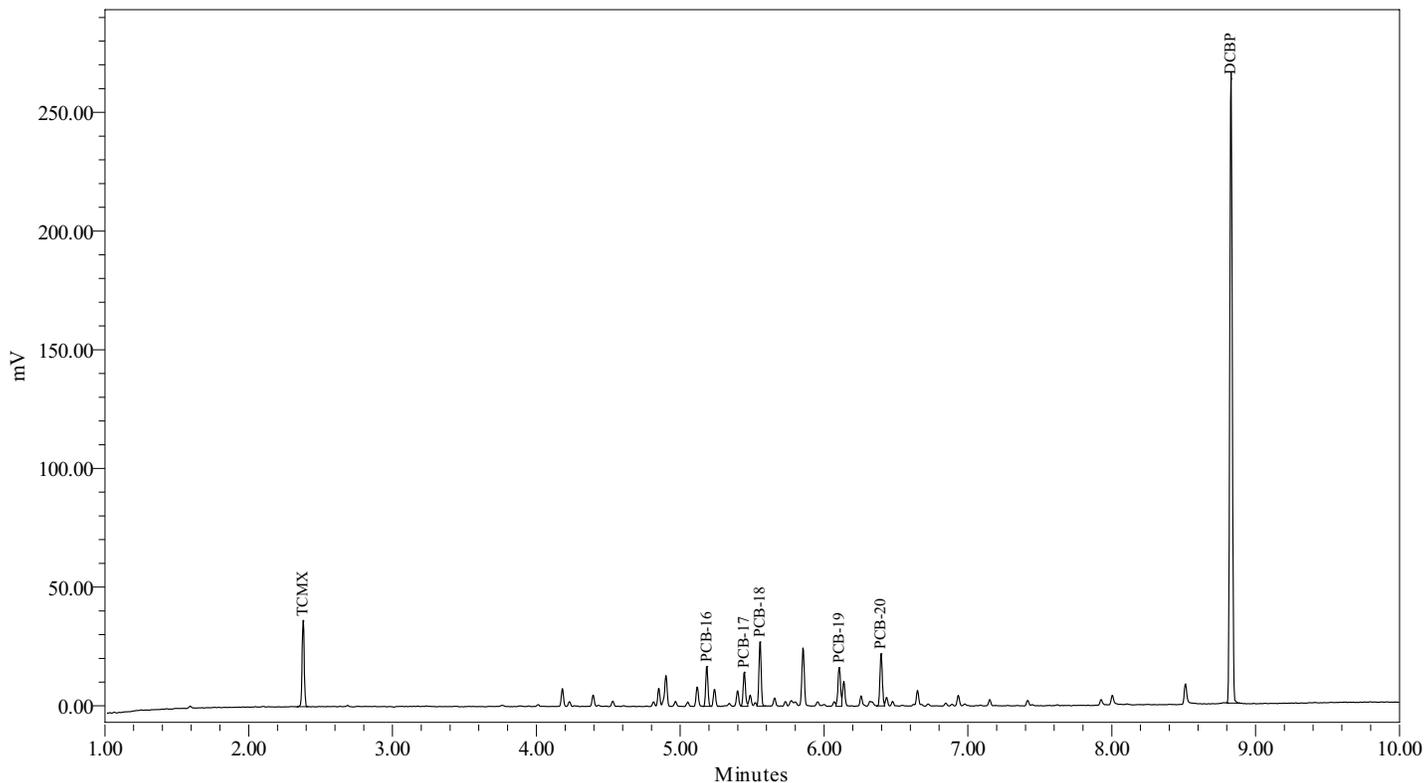
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

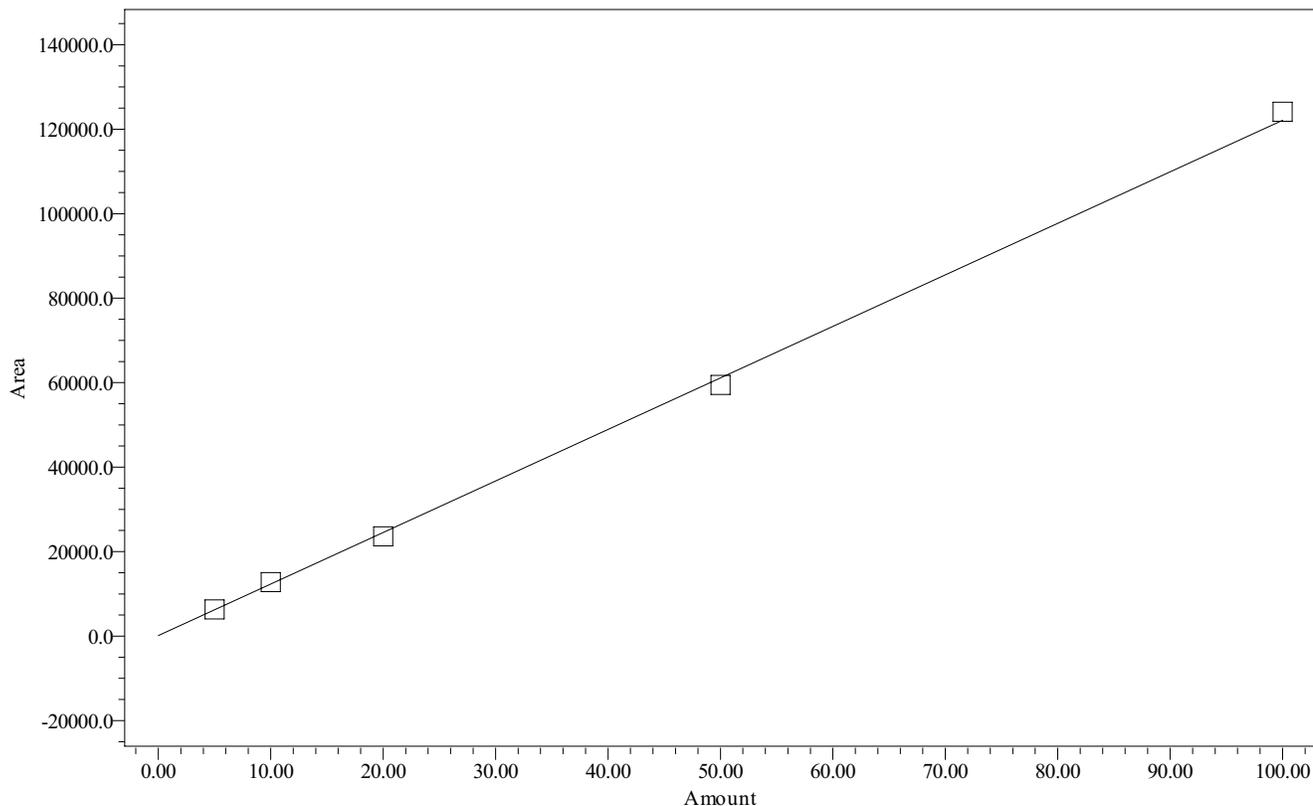
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



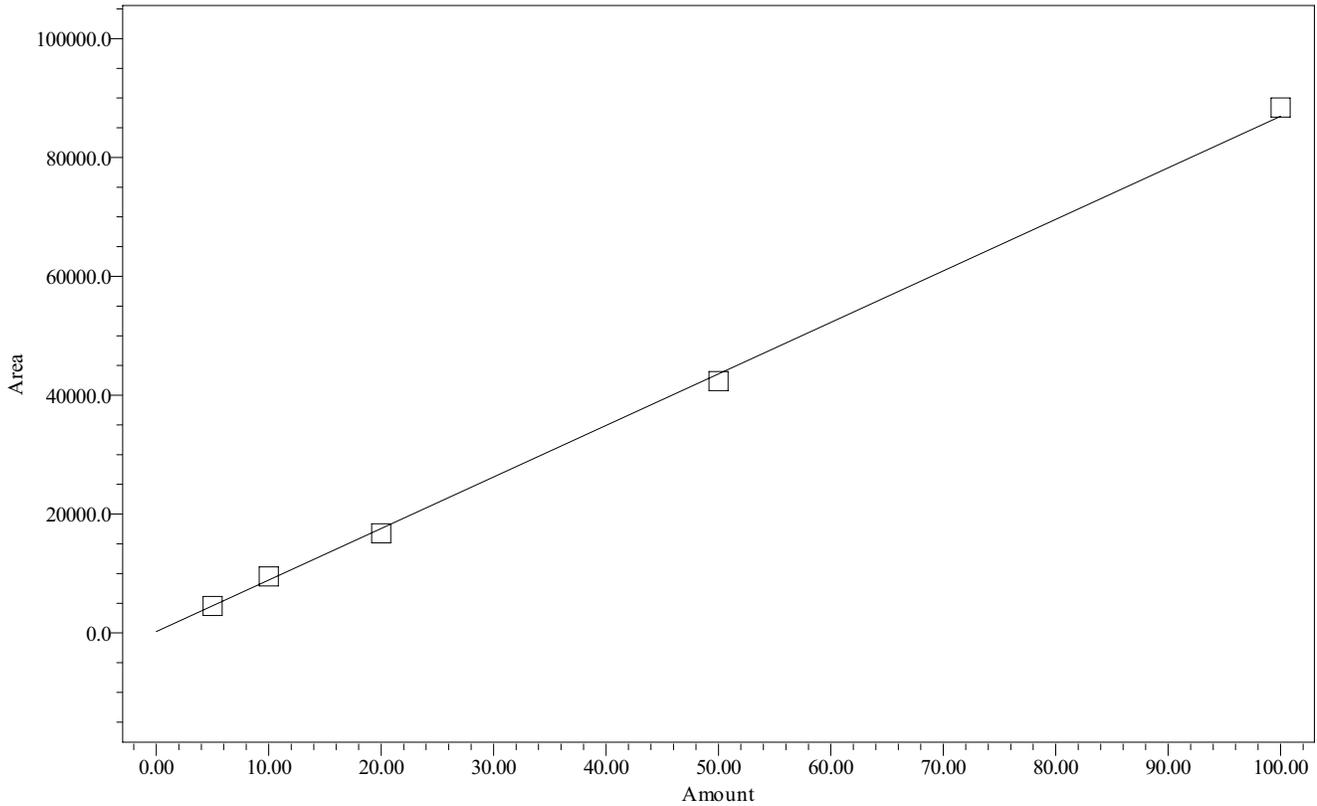
Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1260-20                 | Coefficient constant A:                       | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

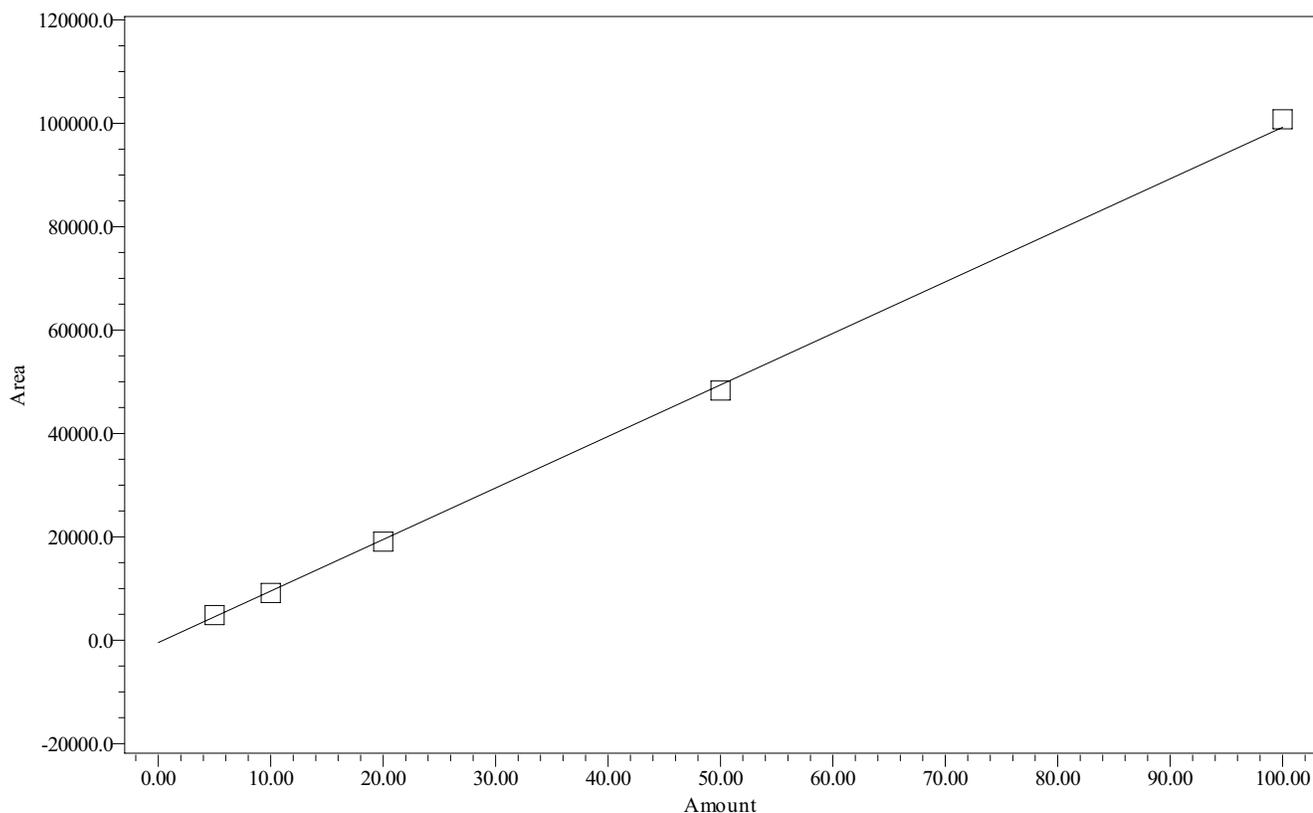
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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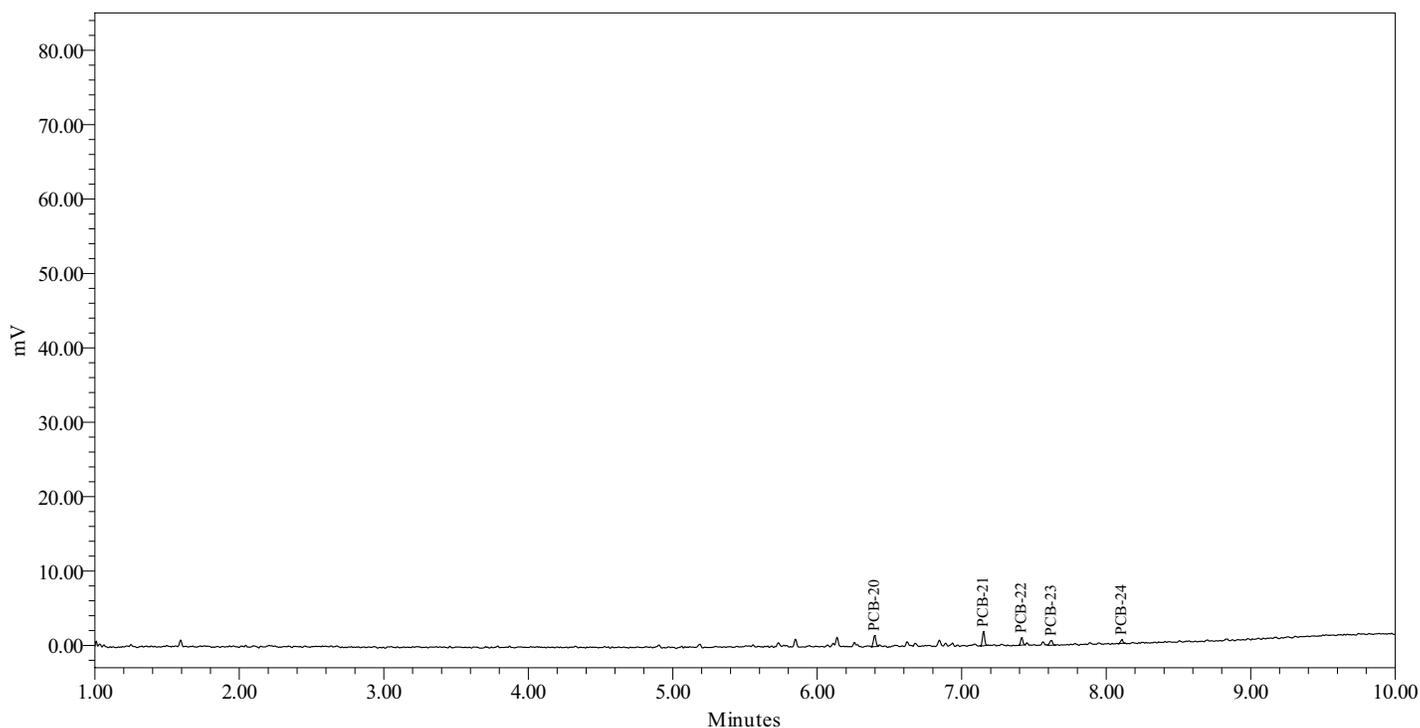
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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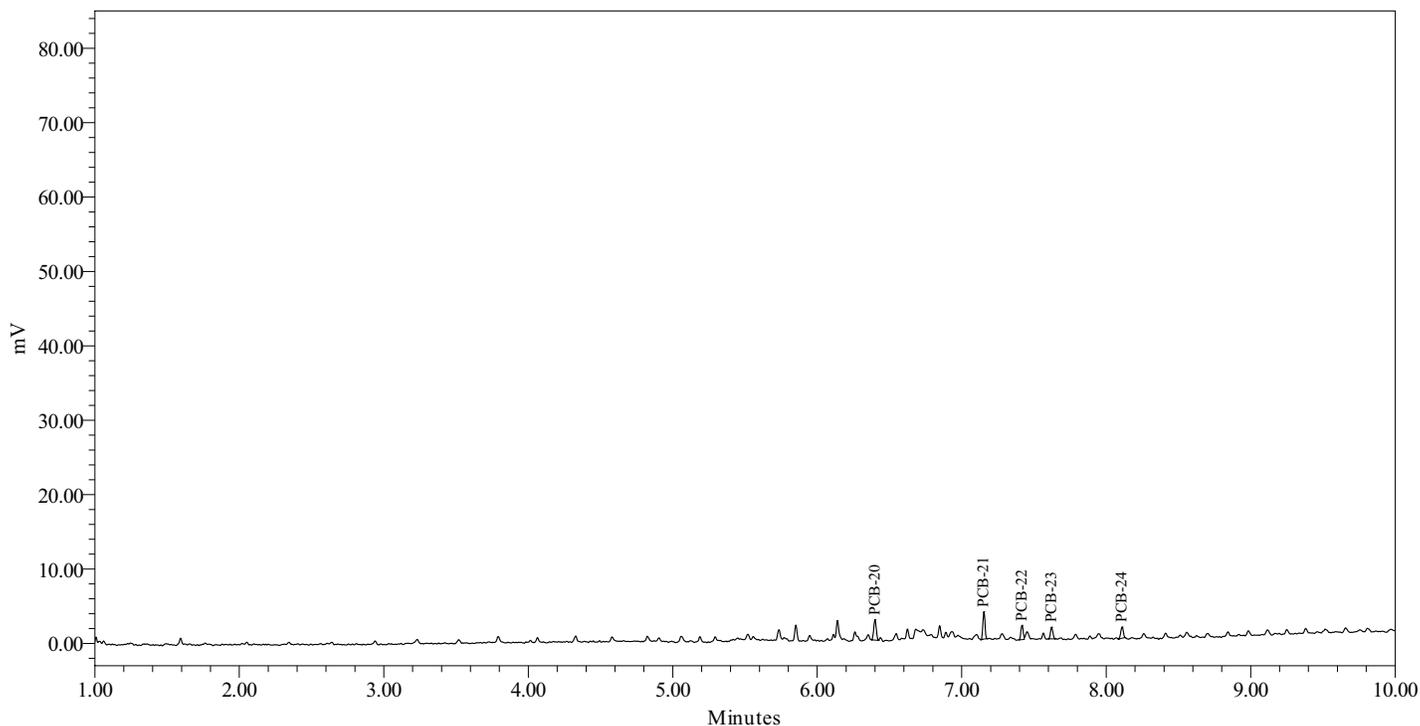
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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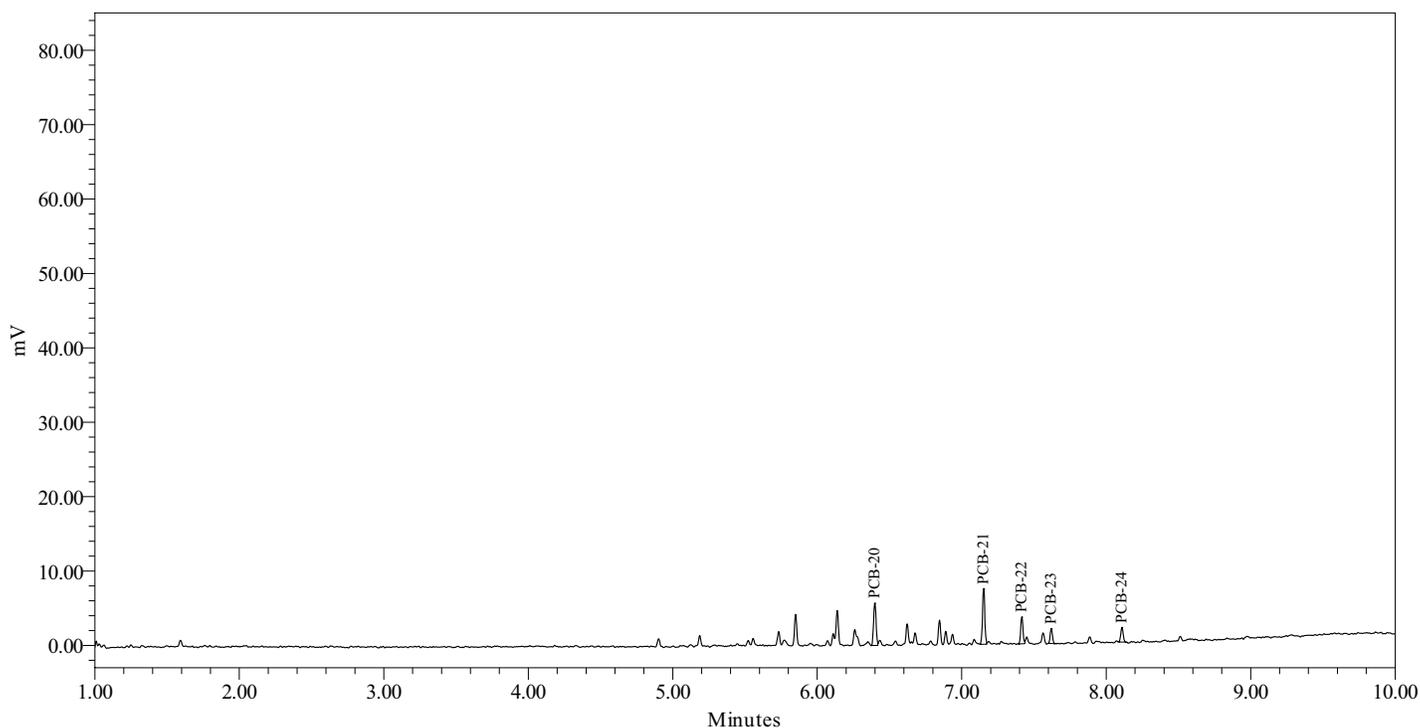
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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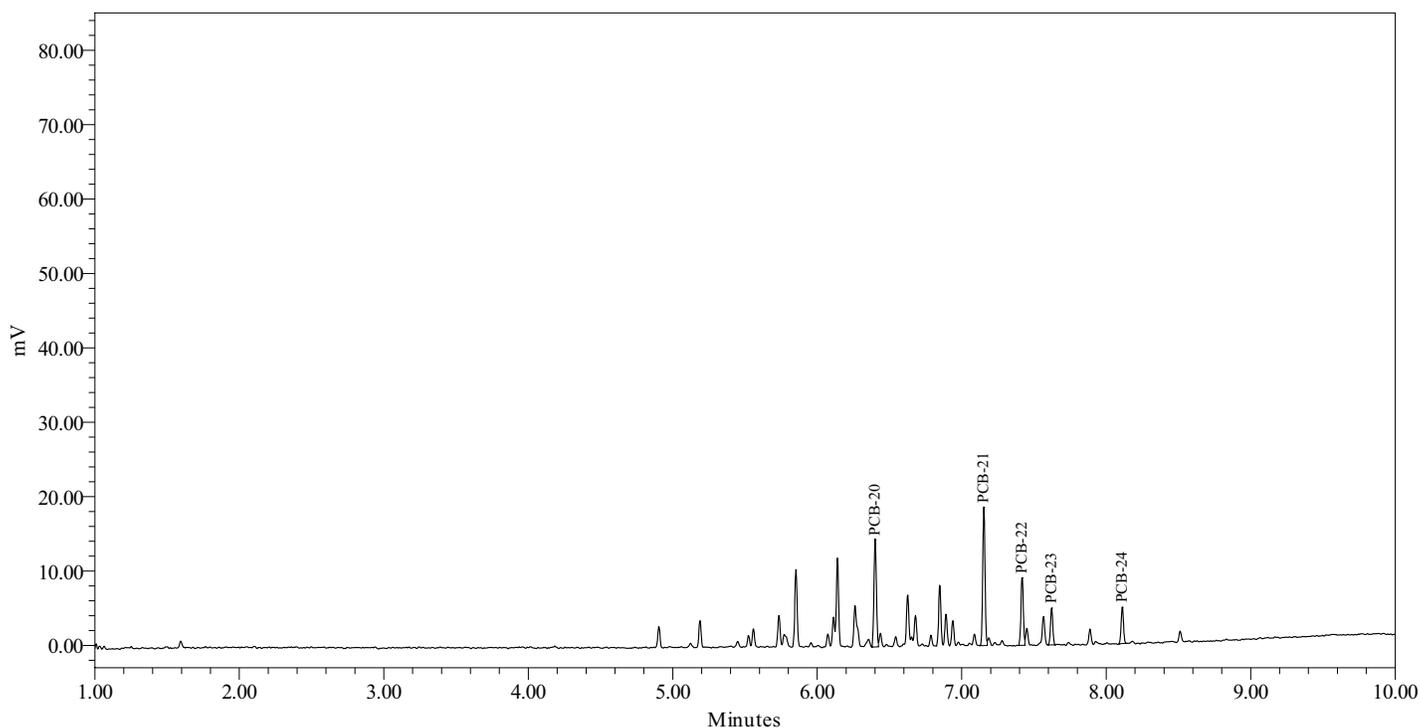
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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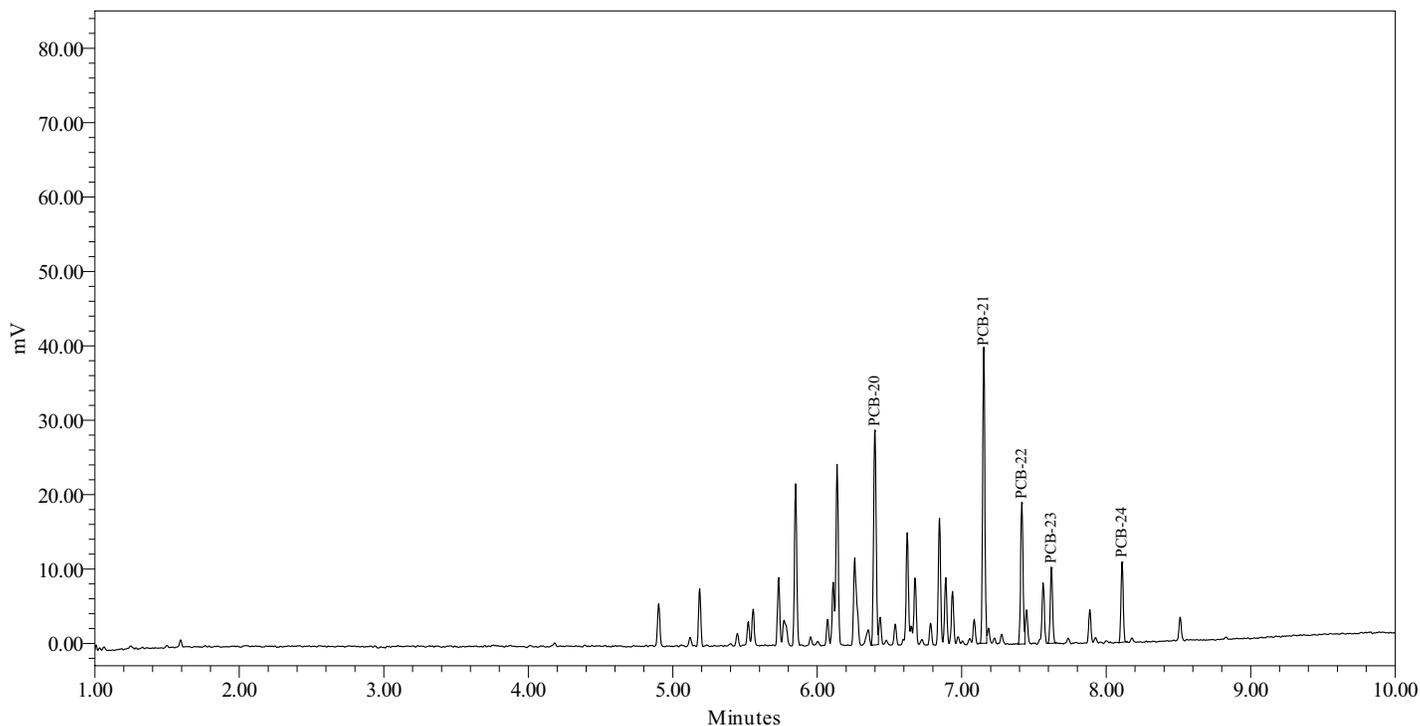
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

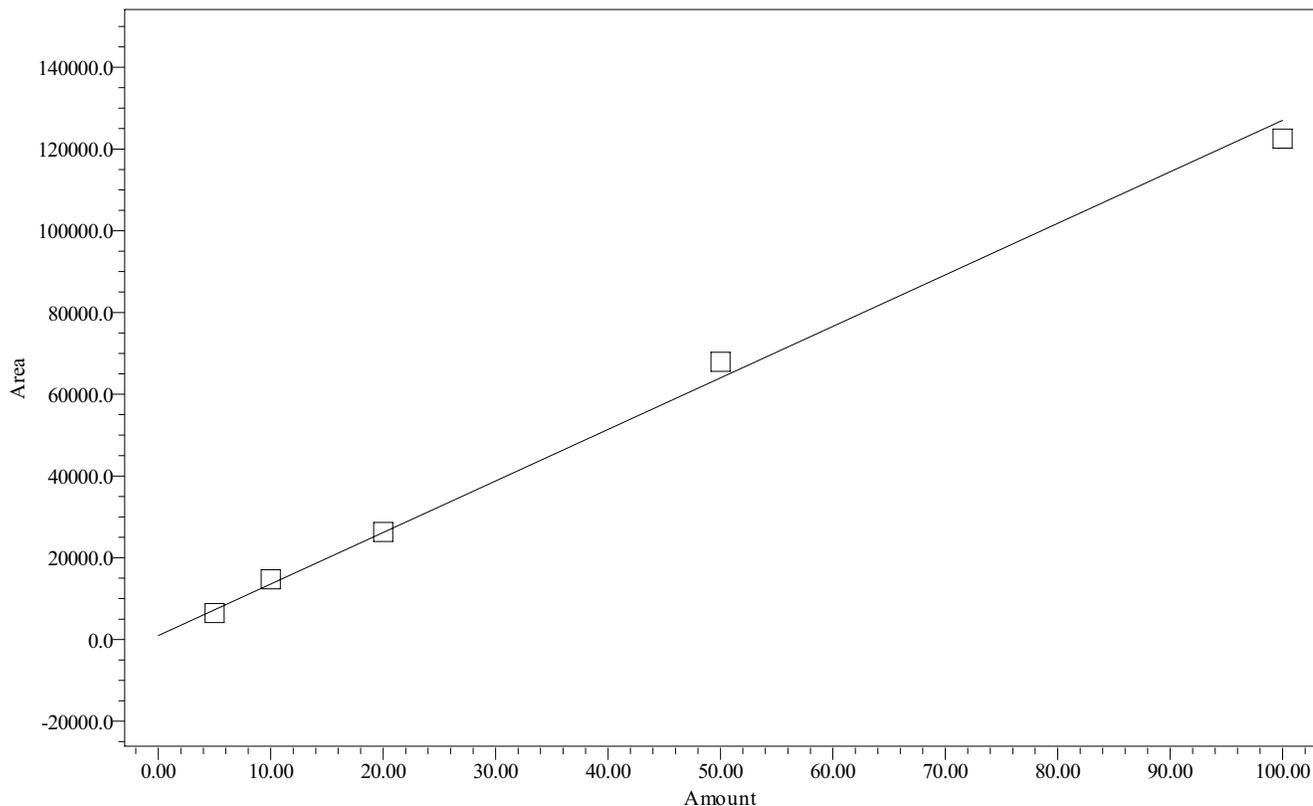
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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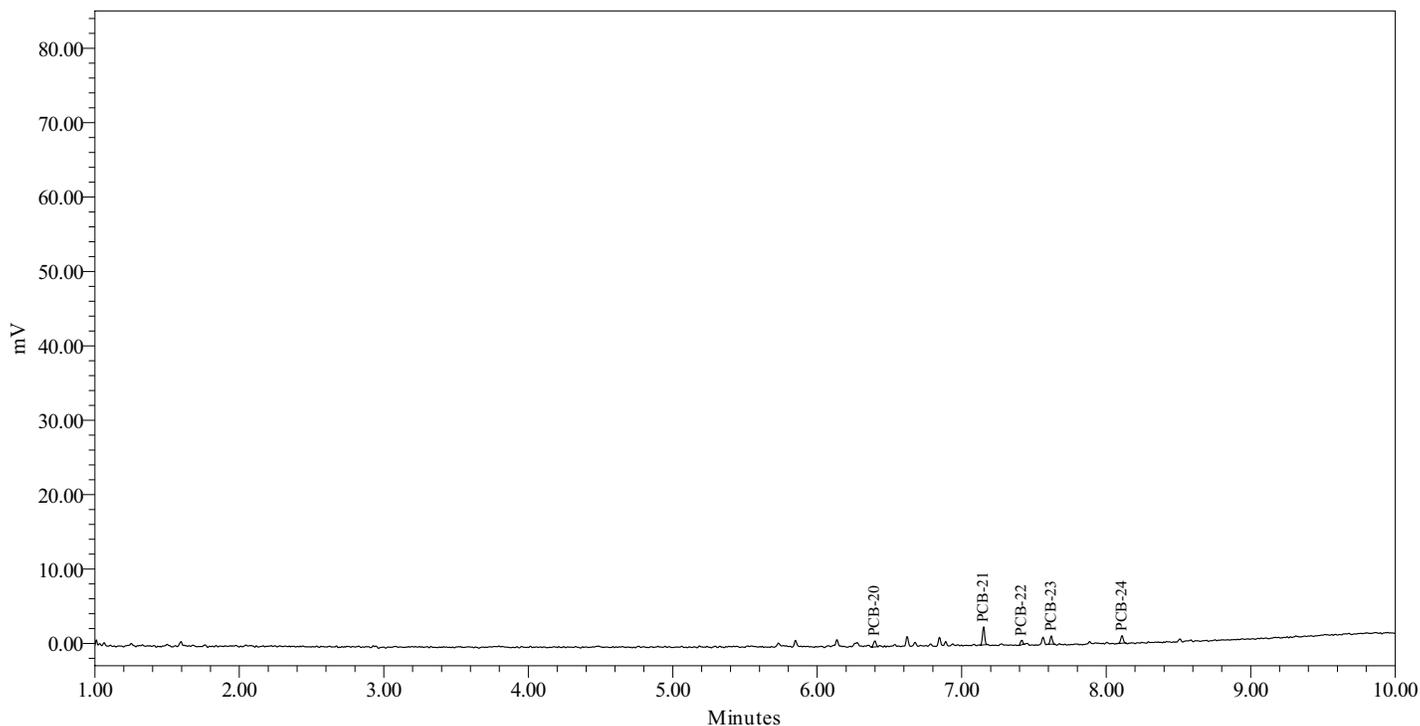
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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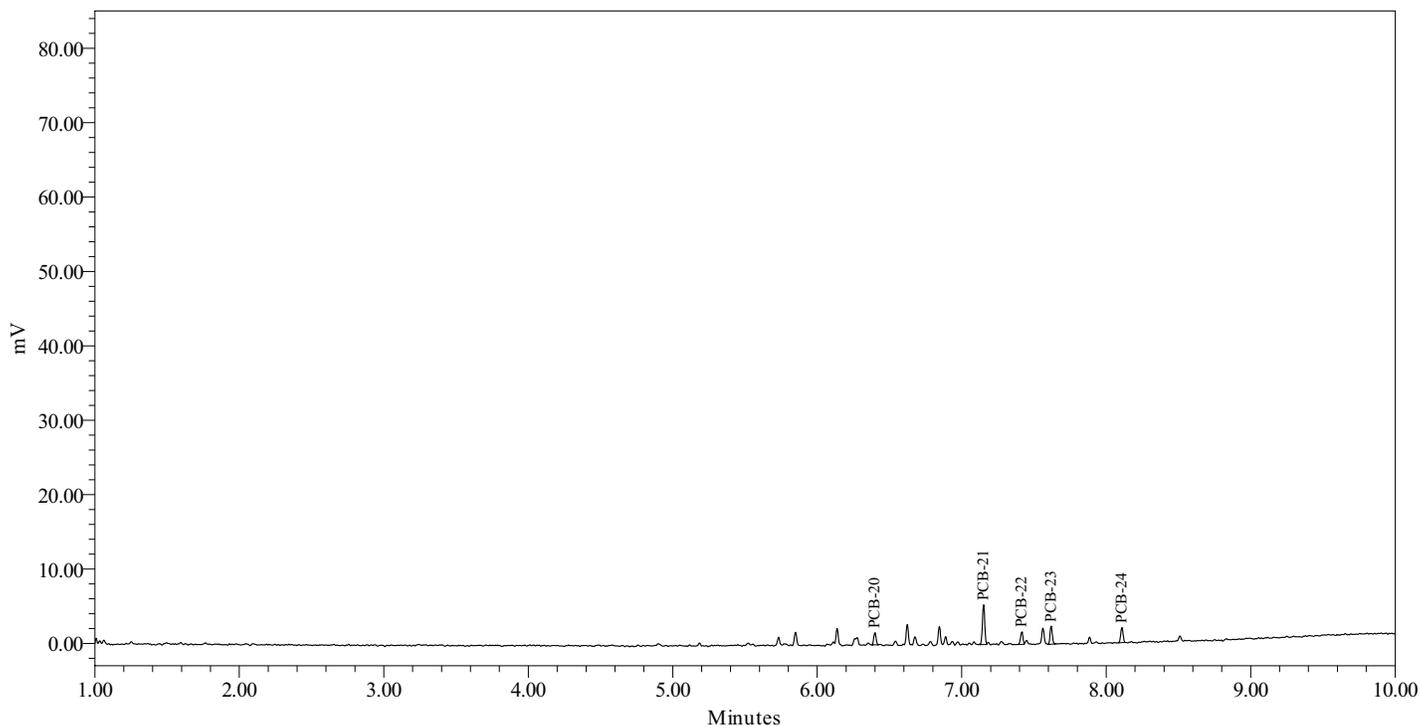
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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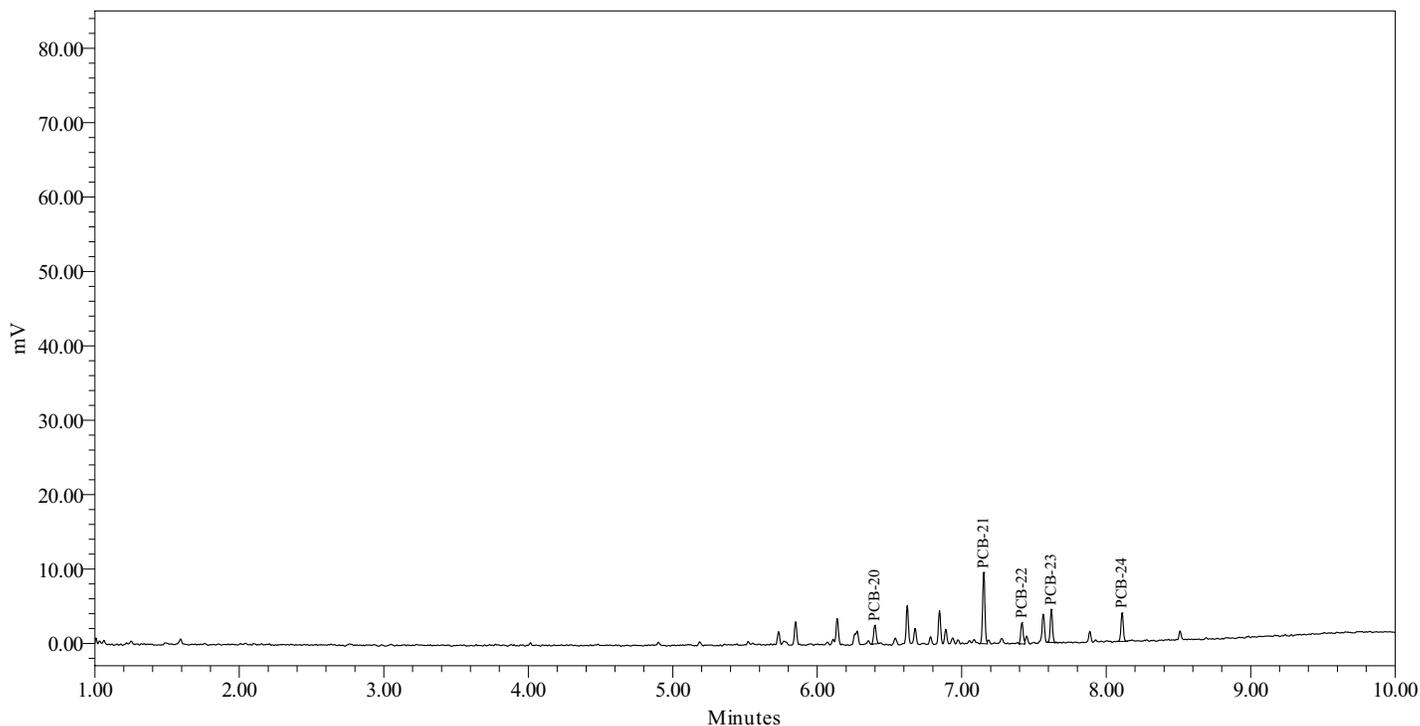
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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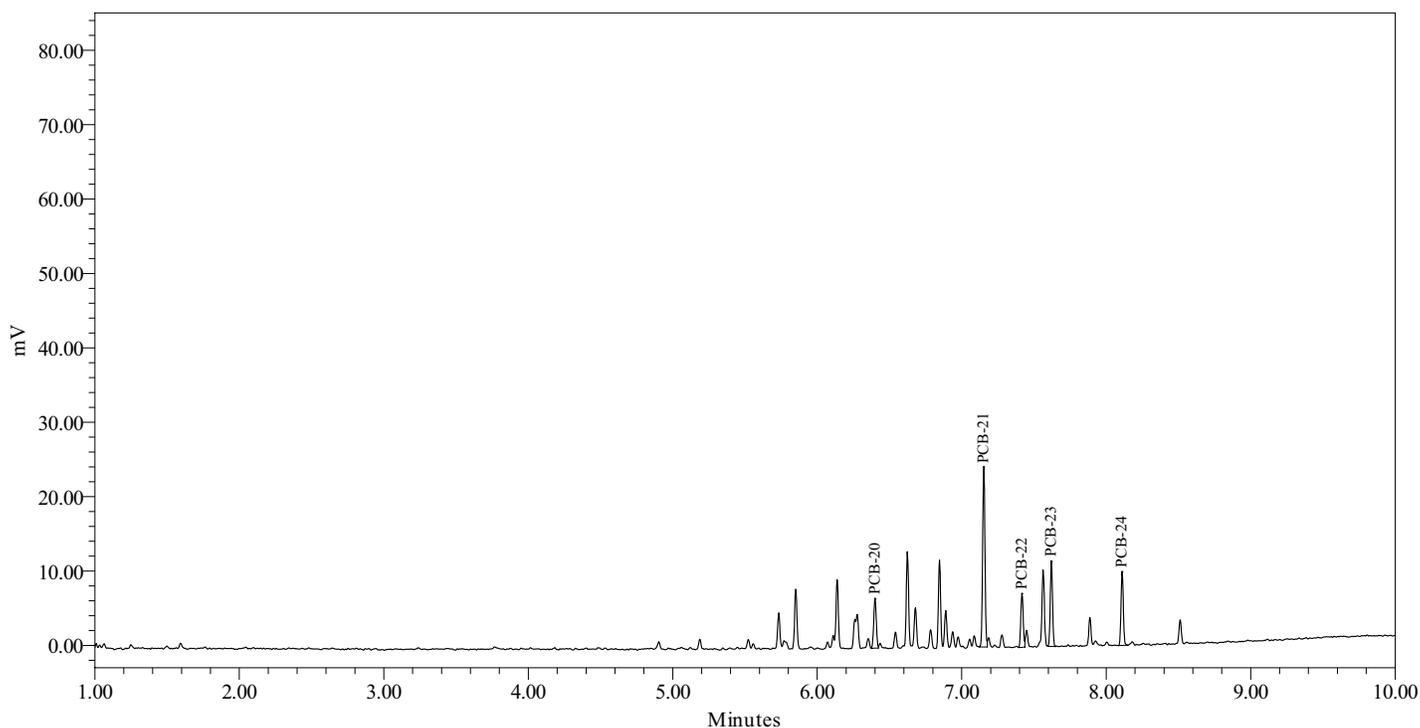
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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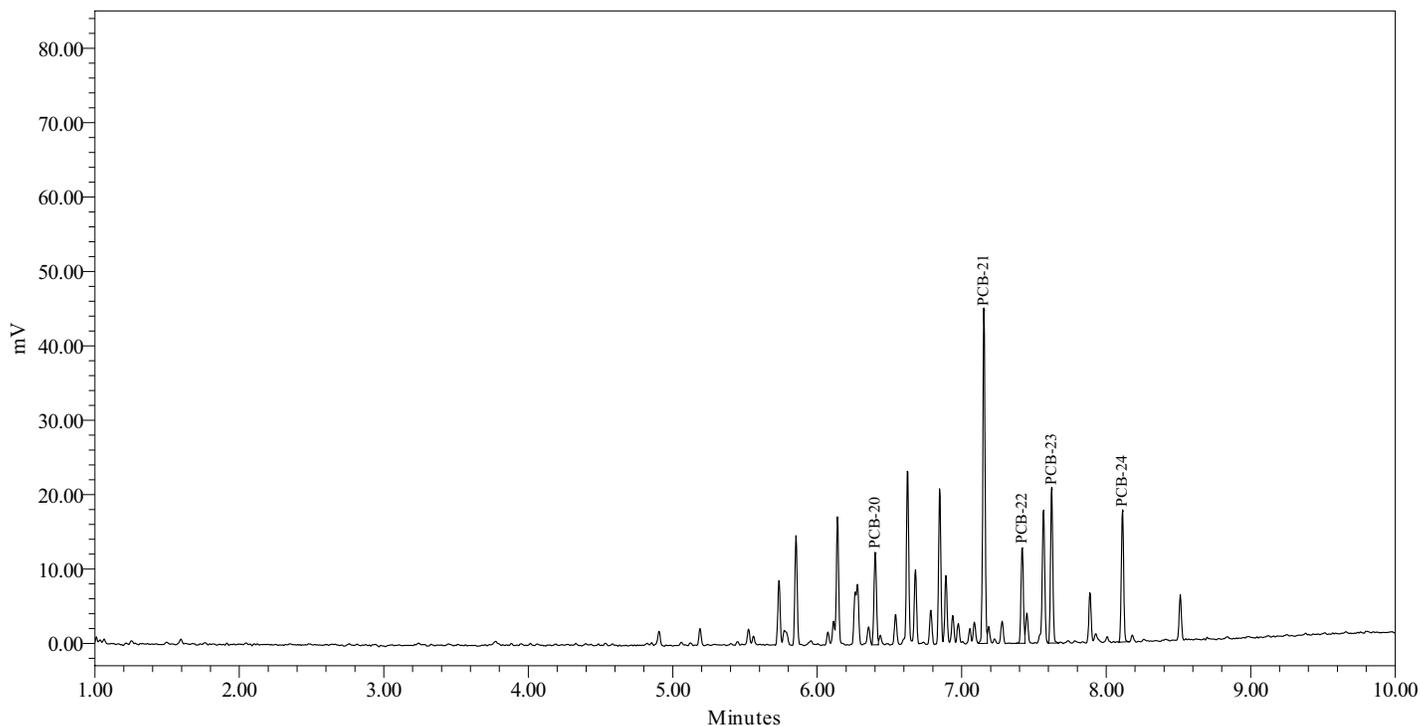
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A 1268-23/24 |
|-----------|-------------|-----------|--------------|
| 1         | 031268A     | 2310.2768 | 1362.1525    |
| 2         | 031268B     | 2277.3915 | 1370.7754    |
| 3         | 031268C     | 2475.6188 | 1463.7598    |
| 4         | 031268D     | 2277.1330 | 1356.7050    |
| 5         | 031268E     | 2197.8075 | 1306.0591    |
| Mean      |             | 2307.646  | 1371.890     |
| Std. Dev. |             | 102.631   | 57.229       |
| % RSD     |             | 4.45      | 4.17         |

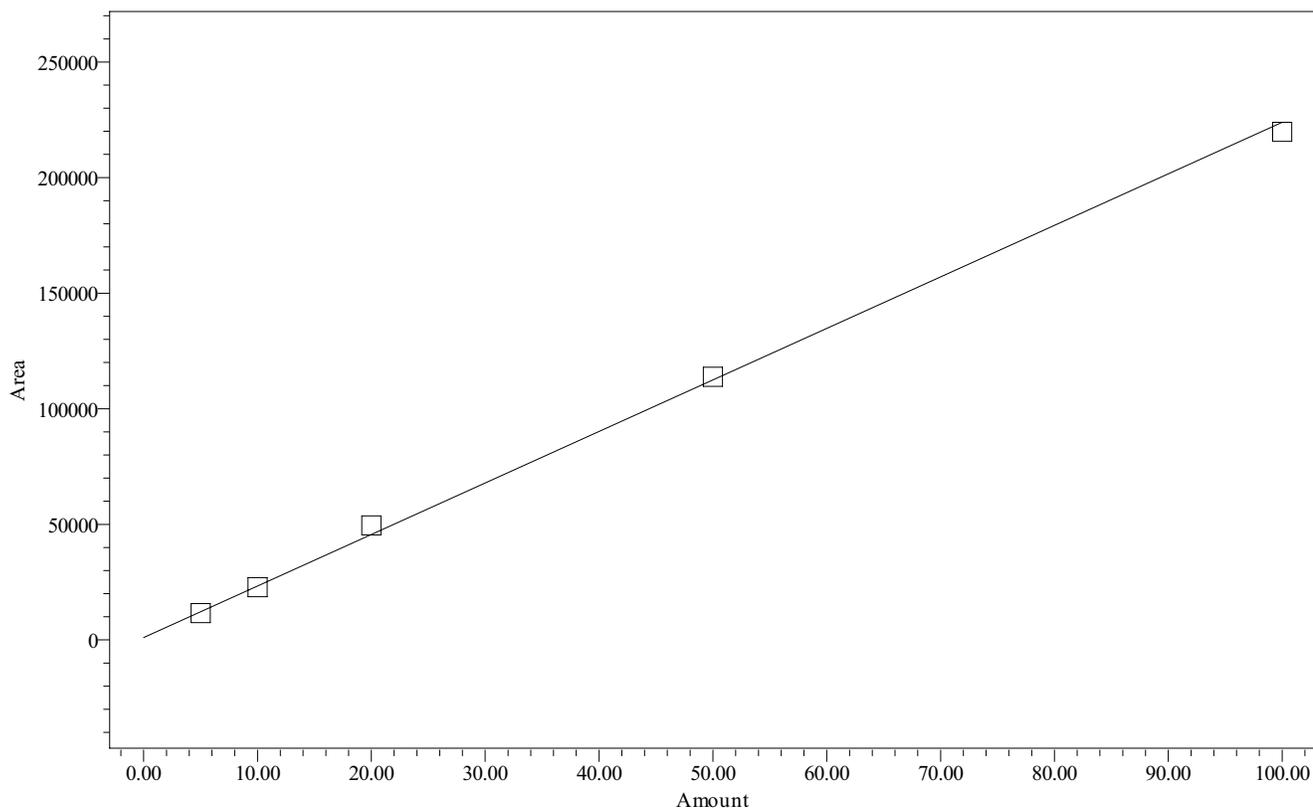
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268                    | Coefficient constant A:           | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

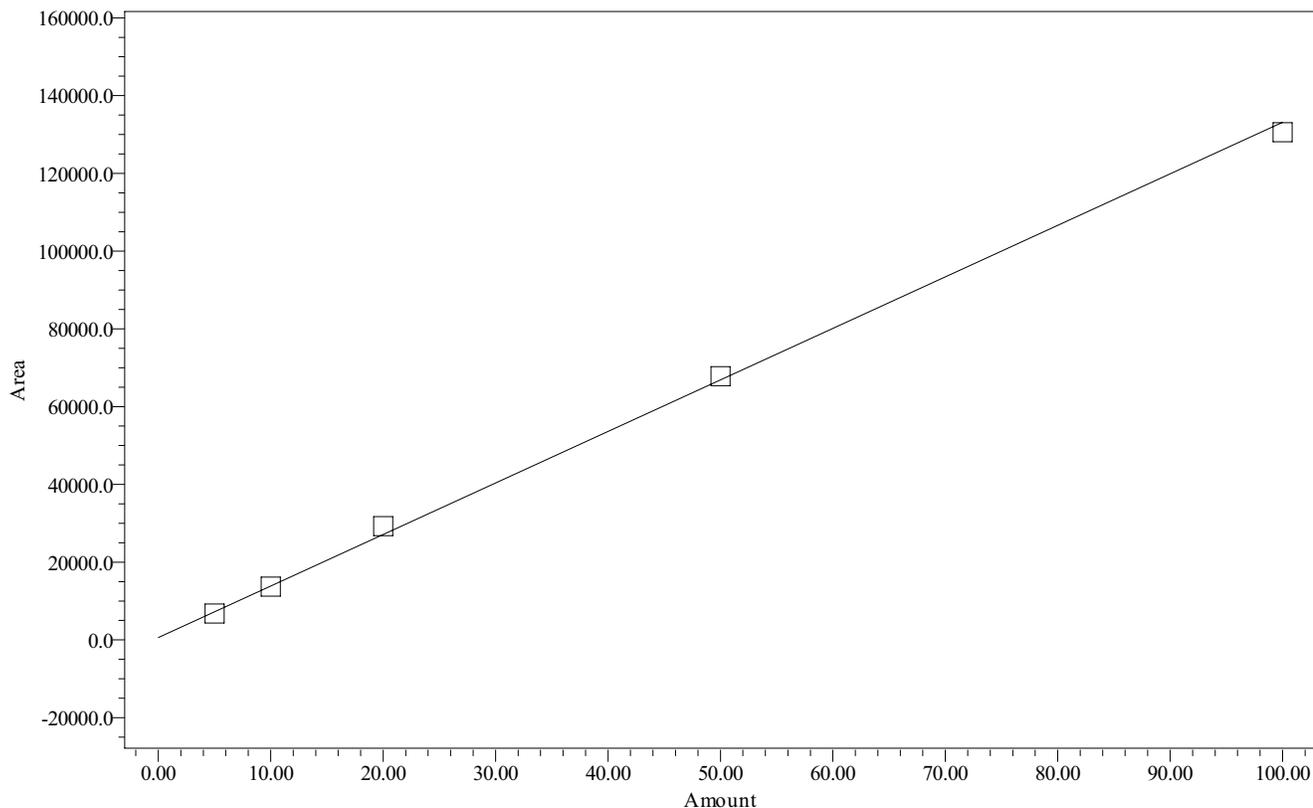
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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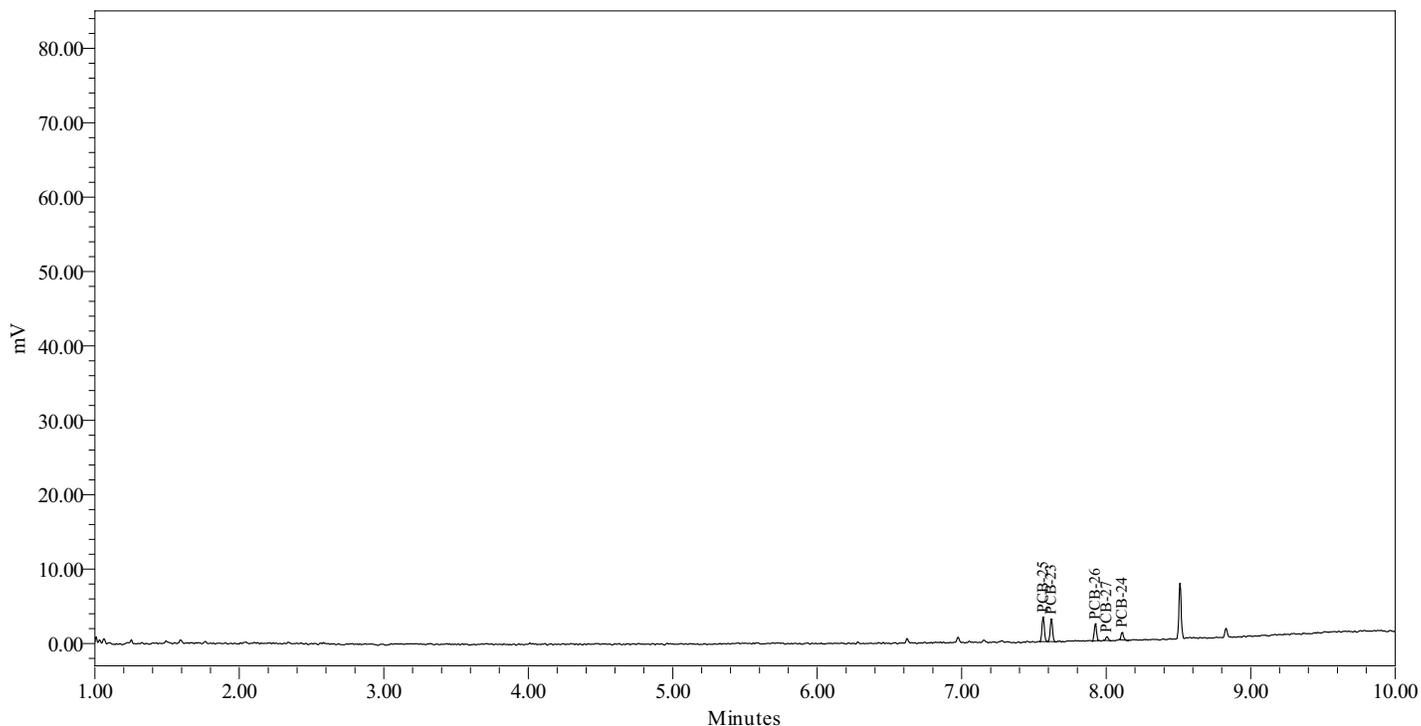
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 3694          |
| 2 PCB-23  | 7.621          | Vb               | 3546          |
| 3 PCB-26  | 7.926          | bb               | 2543          |
| 4 PCB-27  | 8.005          | bb               | 574           |
| 5 PCB-24  | 8.110          | bb               | 1194          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 4741                |                      |
| 2 A1260-20    | 4741                |                      |
| 3 A1262       | 4741                |                      |
| 4 A1268       | 11551               | 5.000                |
| 5 A1268-23/24 | 6811                | 5.000                |



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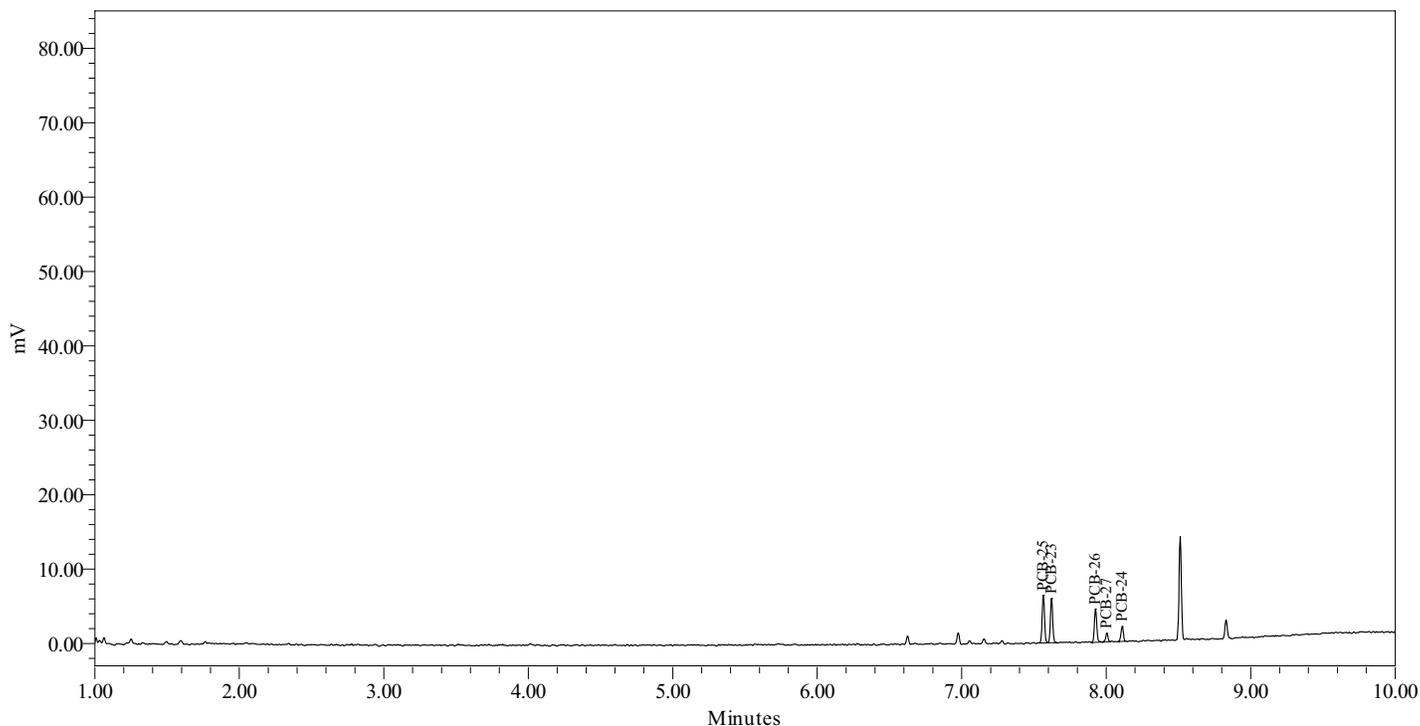
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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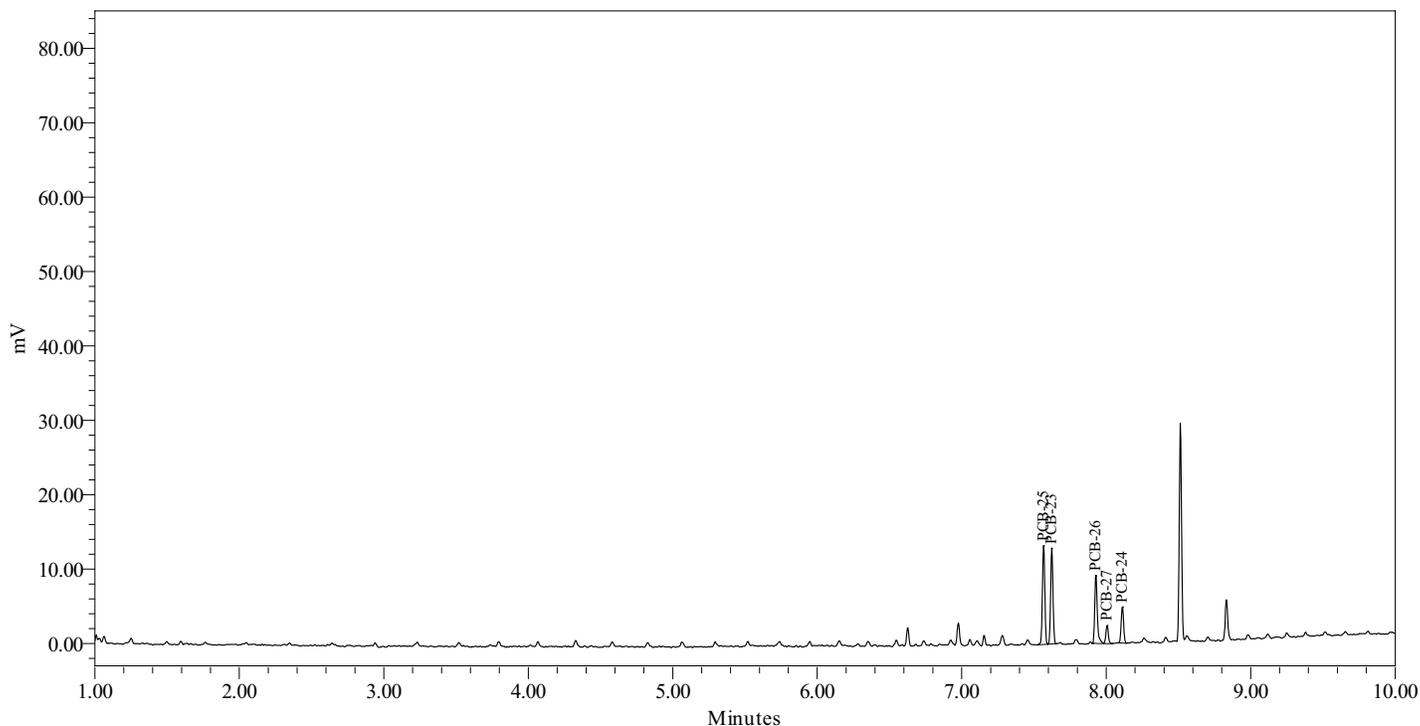
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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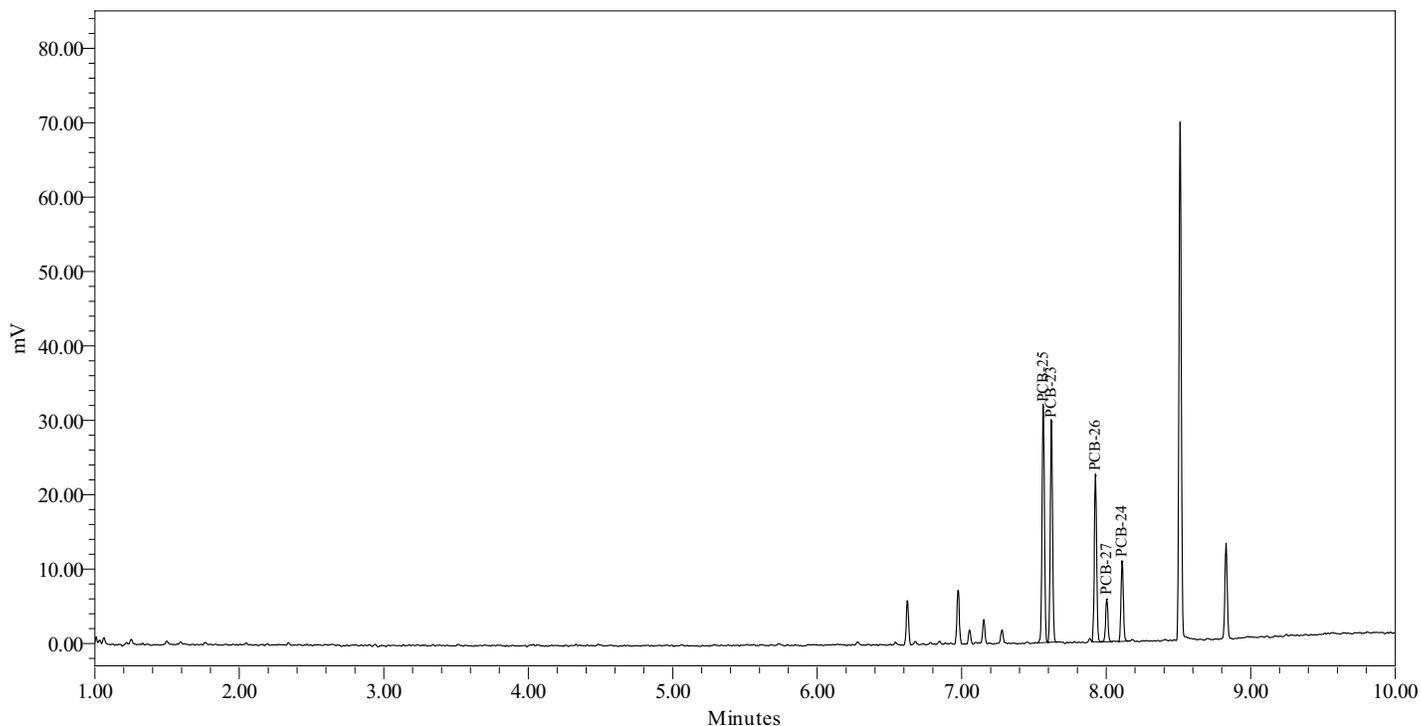
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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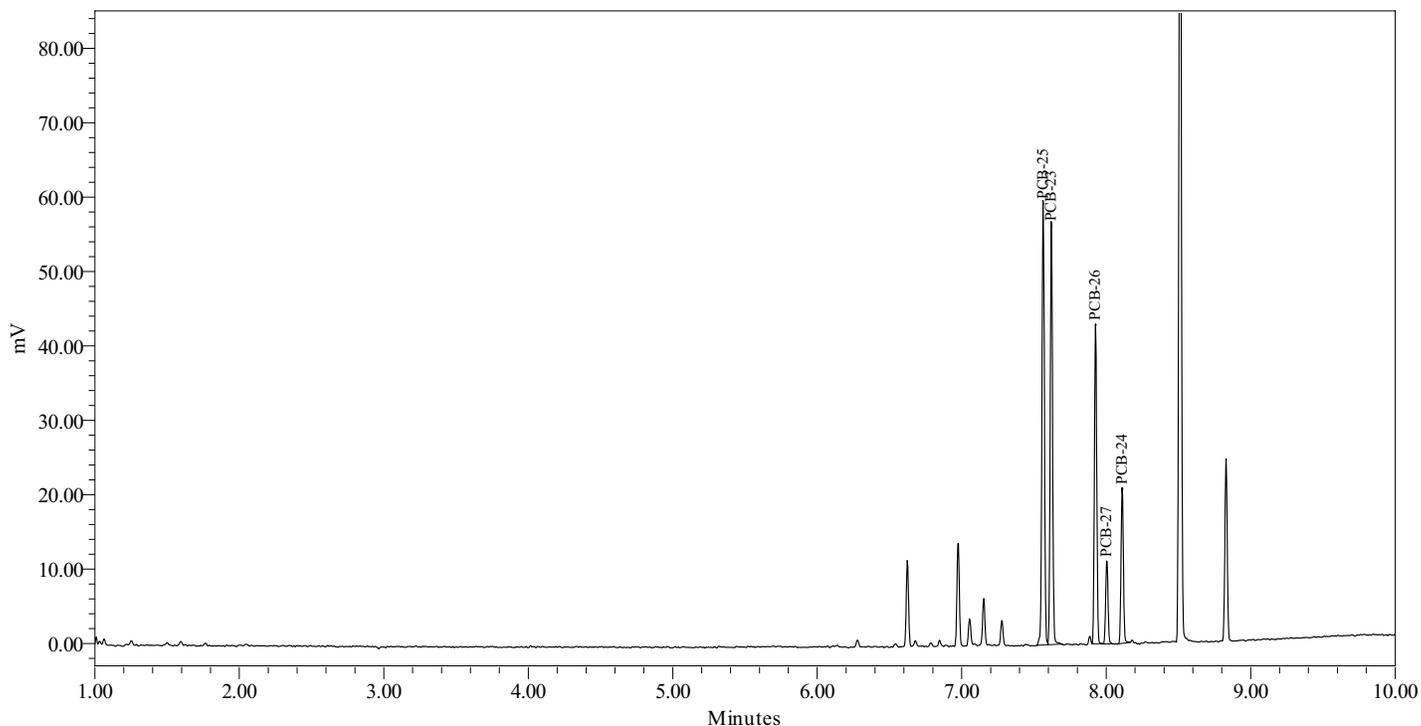
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060144

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1242 | GC28F-1634-15 | CS420605A     | CCV        | 56.1                | 50                 | 12.2               |   | 06/05/2015 17:15:36  |
| Aroclor 1254 | GC28F-1634-25 | CS540605A     | CCV        | 55.6                | 50                 | 11.3               |   | 06/05/2015 19:46:25  |
| Aroclor 1260 | GC28F-1634-30 | CS600605A     | CCV        | 54.3                | 50                 | 8.68               |   | 06/05/2015 22:36:37  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060144

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060144

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060144

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1242 | GC28F-1634-15 | CS420605A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420605A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS420605A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420605A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420605A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1254 | GC28F-1634-25 | CS540605A     | CCV         | 1    | 5.18 | 5.11      | 5.27 |
|              |               | CS540605A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540605A     | CCV         | 3    | 5.55 | 5.48      | 5.64 |
|              |               | CS540605A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540605A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1634-30 | CS600605A     | CCV         | 1    | 6.39 | 6.32      | 6.48 |
|              |               | CS600605A     | CCV         | 2    | 7.14 | 7.07      | 7.23 |
|              |               | CS600605A     | CCV         | 3    | 7.41 | 7.34      | 7.50 |
|              |               | CS600605A     | CCV         | 4    | 7.61 | 7.54      | 7.70 |
|              |               | CS600605A     | CCV         | 5    | 8.10 | 8.03      | 8.19 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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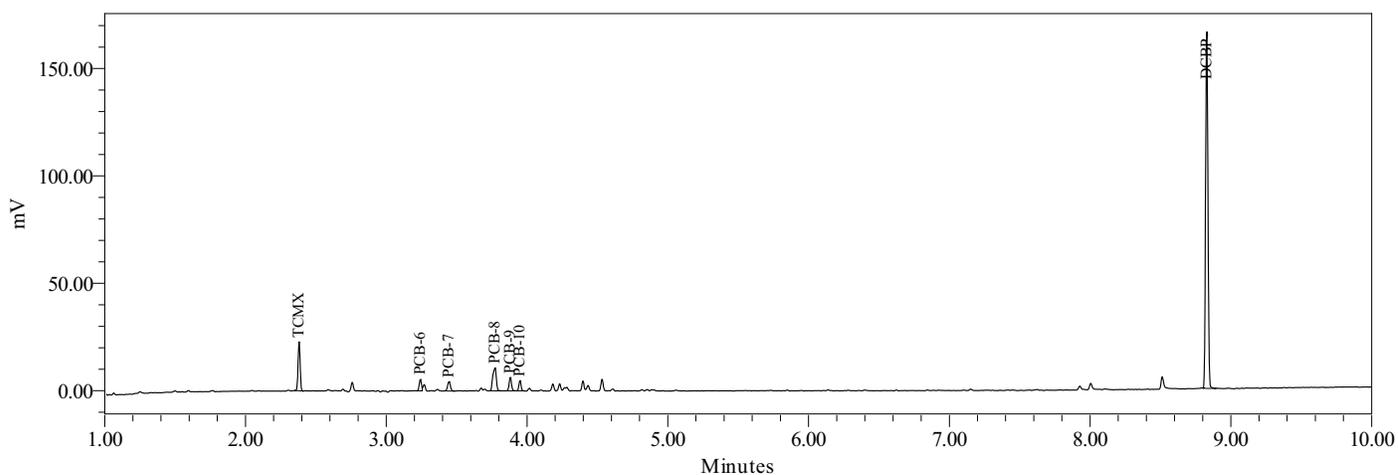
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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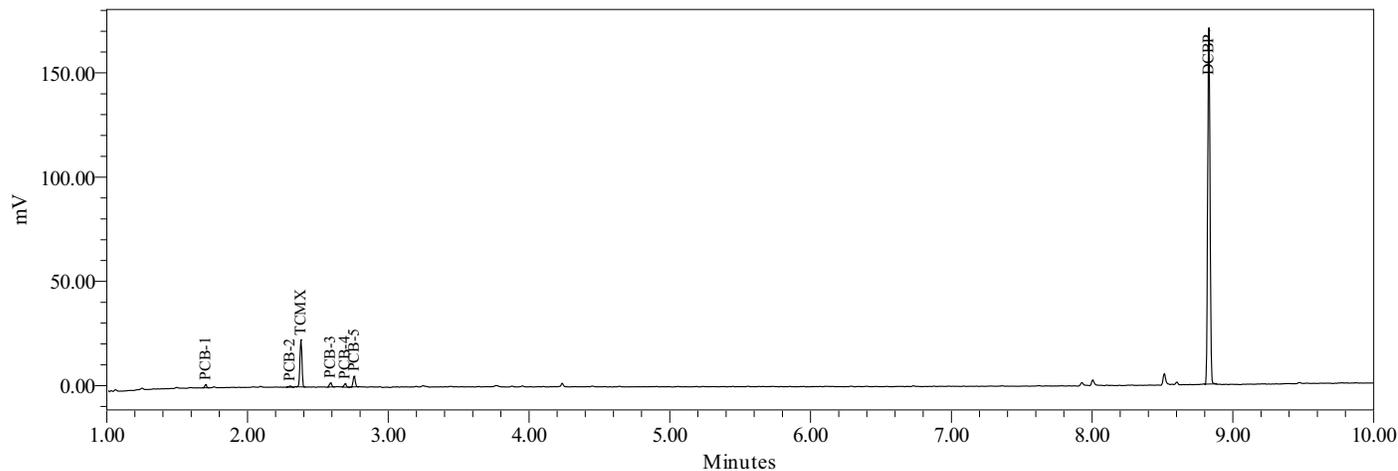
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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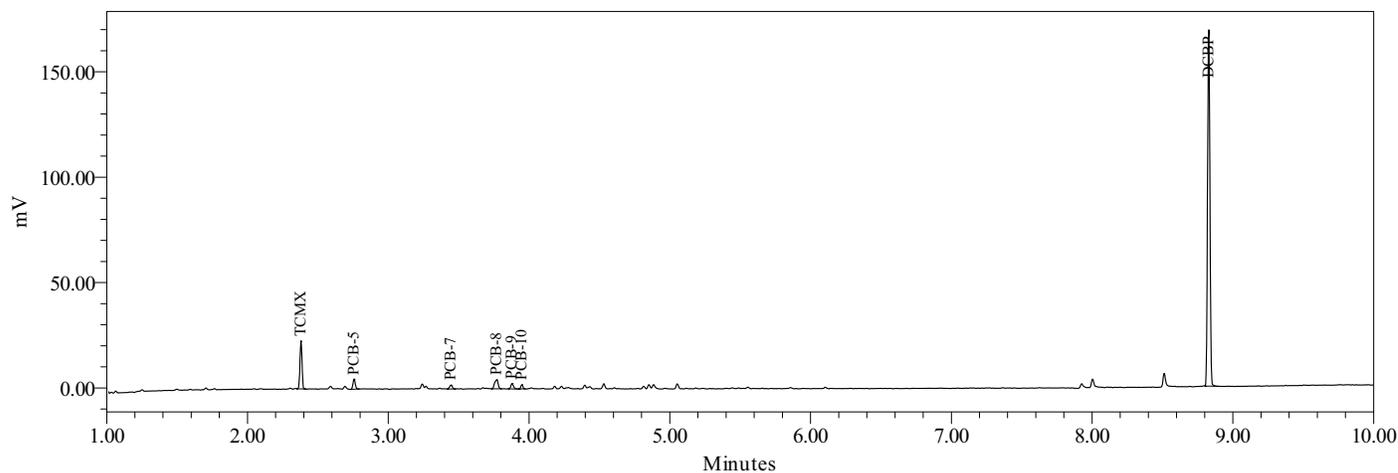
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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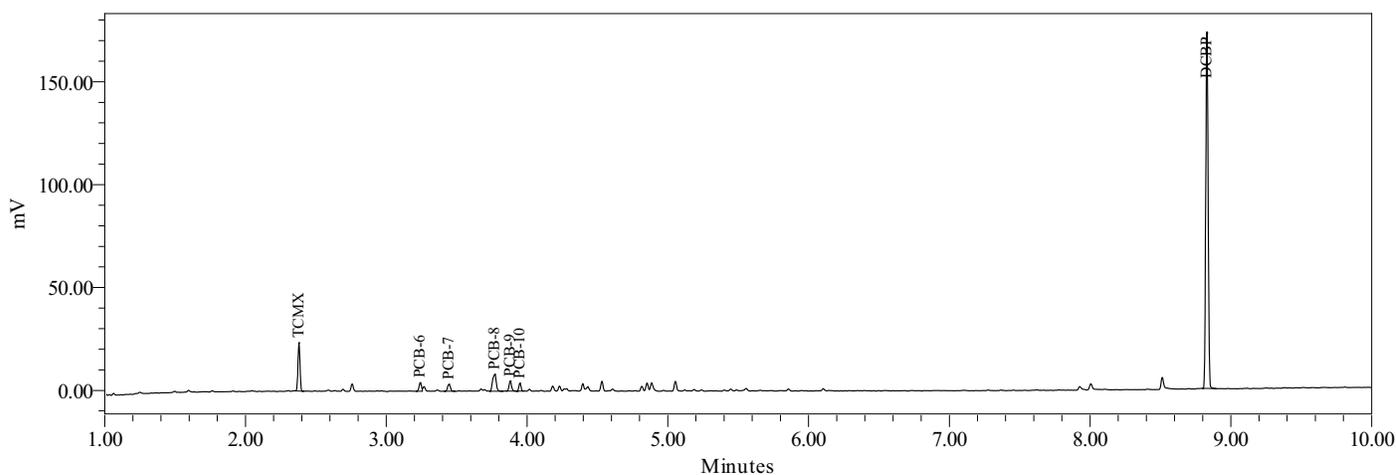
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| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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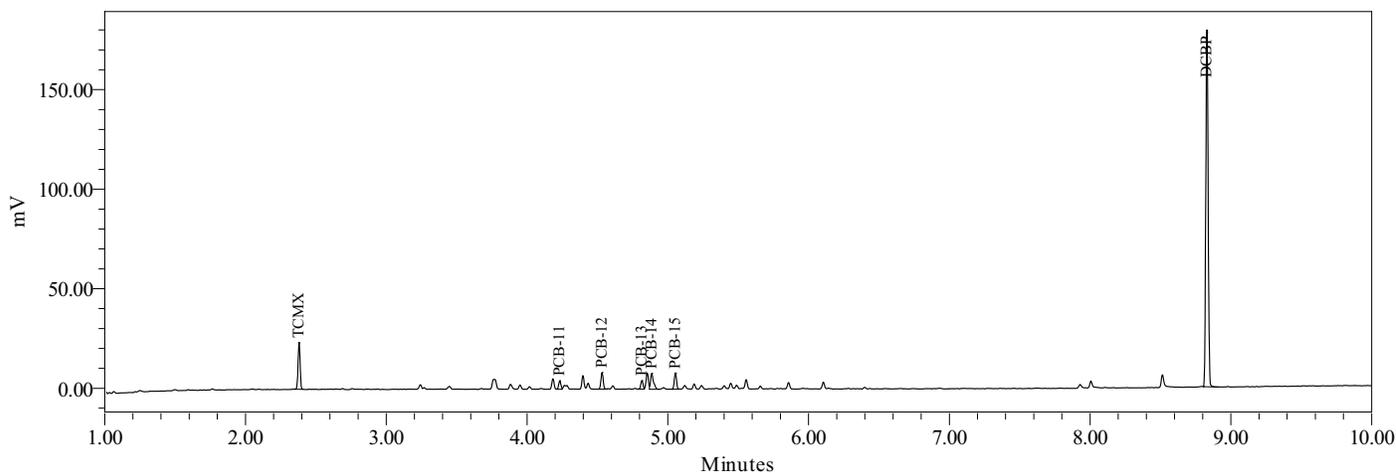
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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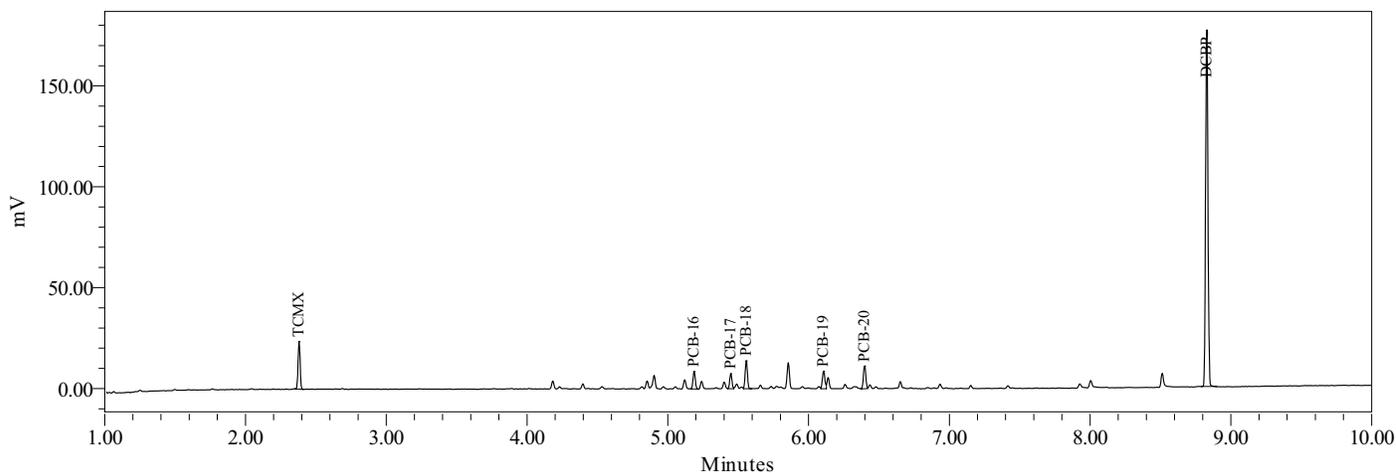
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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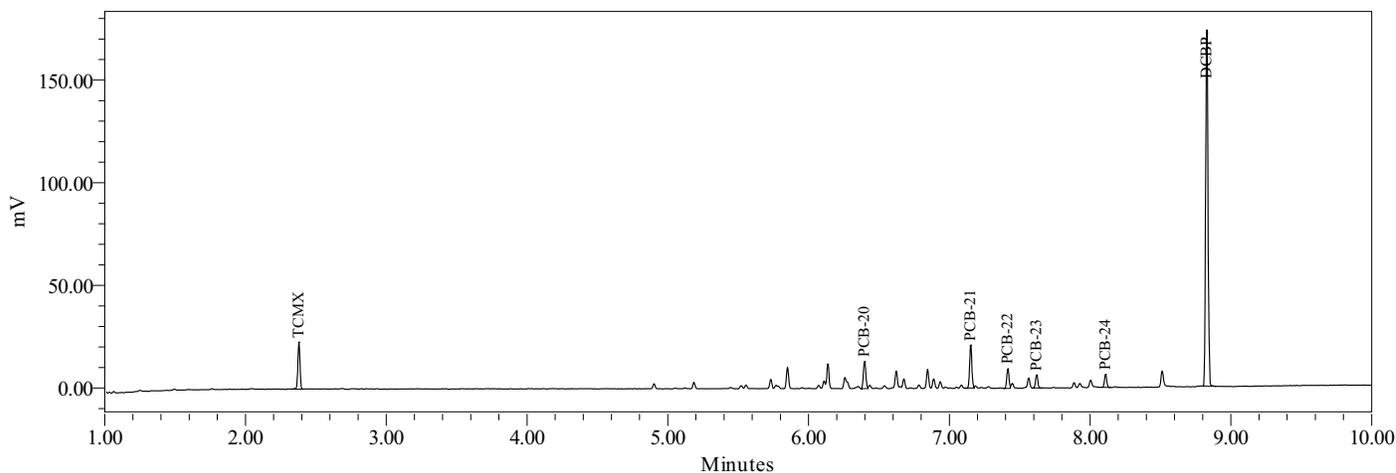
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|--------------------|--------------------------|-----------------|--------------------------|
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| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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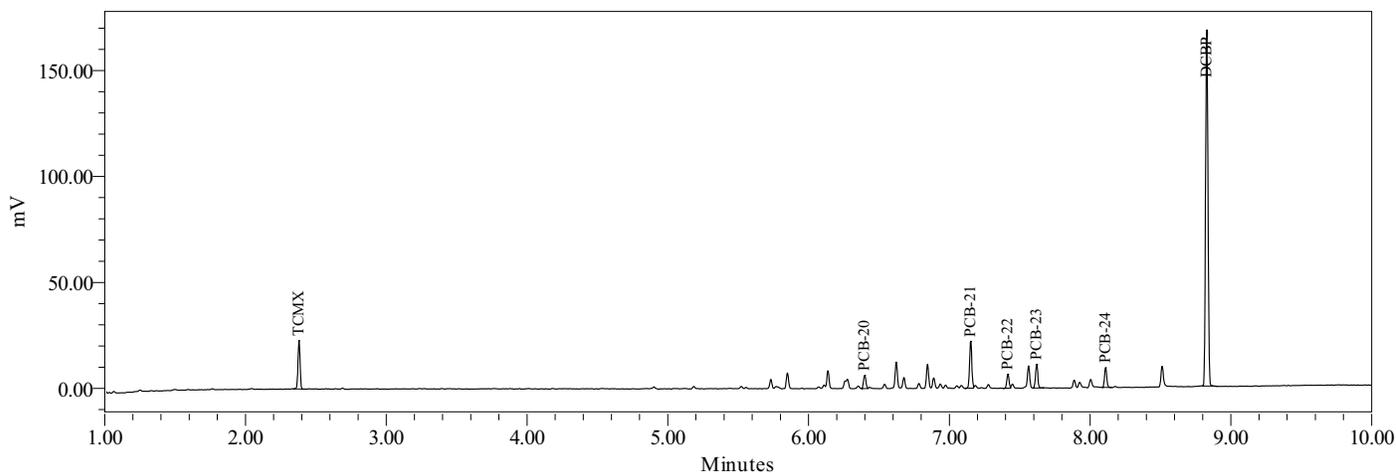
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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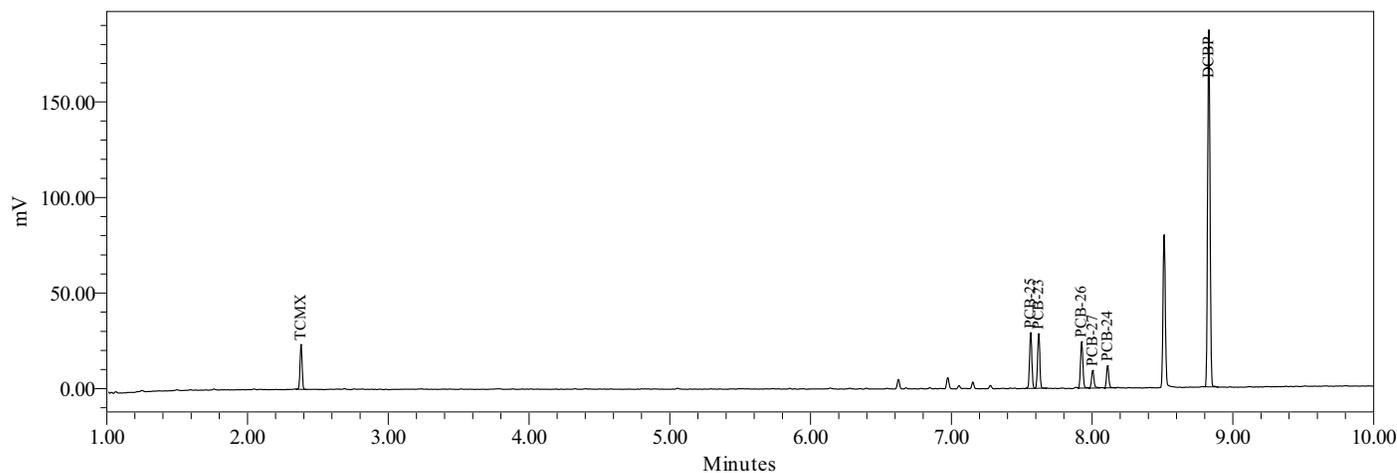
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |

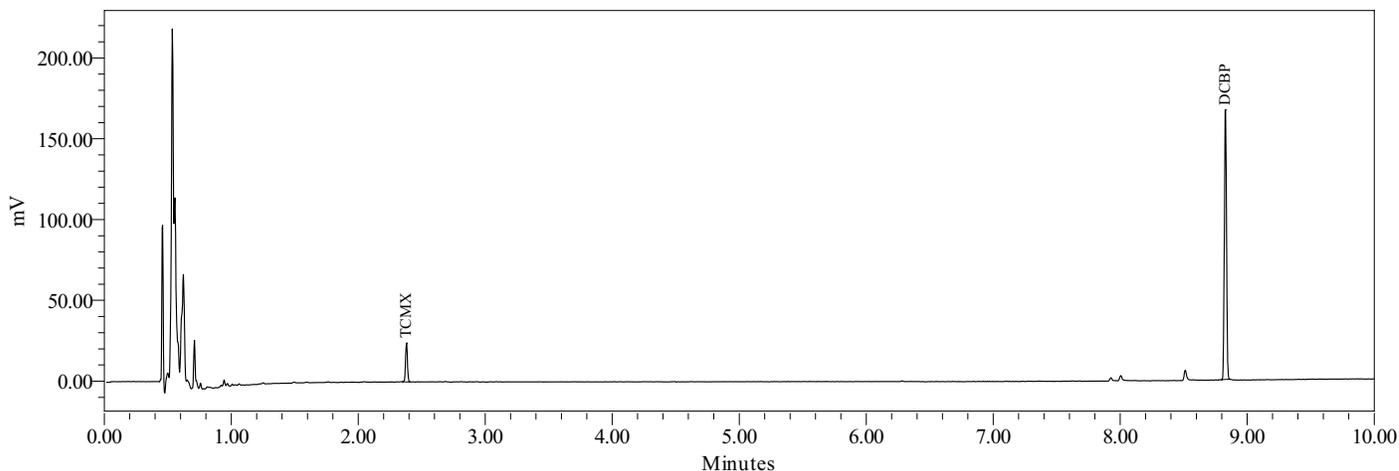


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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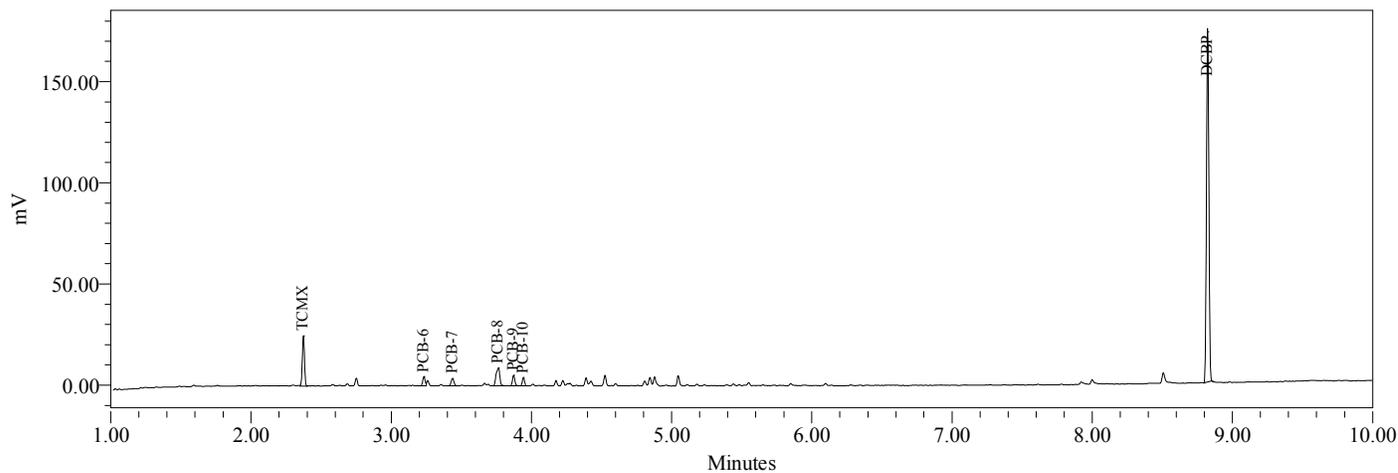
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS420605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 5:15:36 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 5:44:57 PM EDT      |
| Sample Set Name:   | GC28F_060515a           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:19:32 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-15 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | vB               | 25889         | 5.313                | 106.3       |             |
| 2 PCB-6   | 3.233          | VV               | 5342          |                      |             |             |
| 3 PCB-7   | 3.437          | BB               | 5005          |                      |             |             |
| 4 PCB-8   | 3.764          | BB               | 15648         |                      |             |             |
| 5 PCB-9   | 3.873          | BV               | 6494          |                      |             |             |
| 6 PCB-10  | 3.942          | VV               | 4511          |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 204597        | 50.113               |             | 100.2       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 37000               | 43.831               | -12.34              |        |      |
| 2 A1232     | 31658               | 72.569               | 45.14               |        |      |
| 3 A1232-8/9 | 9516                | 46.235               | -7.53               |        |      |
| 4 A1242     | 37000               | 56.094               | 12.19               | X      |      |



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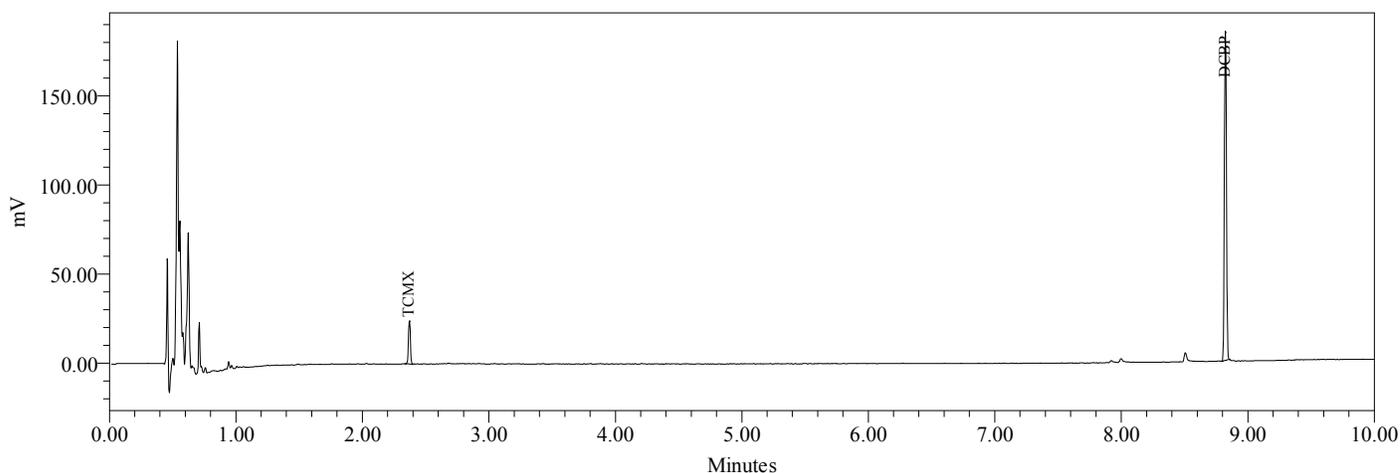
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Sample Name: 150605B06 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/5/2015 5:29:14 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/5/2015 5:45:12 PM EDT  
Sample Set Name: GC28F\_060515a User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/5/2015  
Run Time: 10.0 Minutes Current Time: 11:20:03 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1634-16 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.372          | BB               | 25639         | 5.260                | 105.20888 |           |
| 2 DCBP    | 8.824          | BB               | 209893        | 51.499               |           | 102.99752 |



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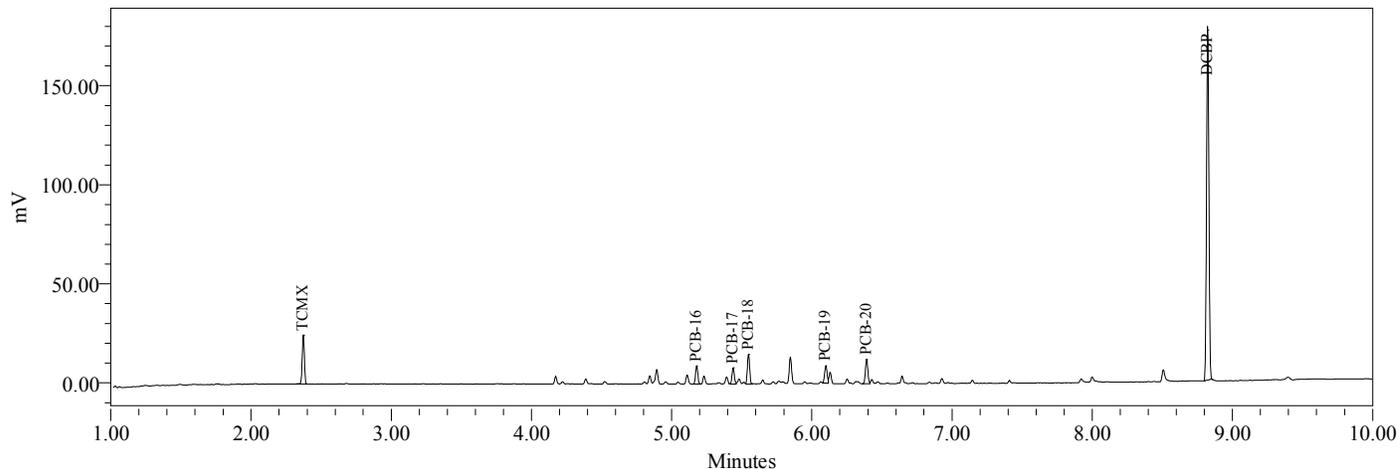
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS540605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 7:46:25 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 9:22:09 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:19:37 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-25 [A]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | BB               | 26427         | 5.425                | 108.5       |             |
| 2 PCB-16  | 5.178          | BV               | 10454         |                      |             |             |
| 3 PCB-17  | 5.439          | VV               | 9133          |                      |             |             |
| 4 PCB-18  | 5.548          | VV               | 16833         |                      |             |             |
| 5 PCB-19  | 6.099          | BV               | 10639         |                      |             |             |
| 6 PCB-20  | 6.391          | BV               | 14529         |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 205286        | 50.294               |             | 100.6       |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 61587               | 55.641               | 11.28               | X      |      |
| 2 A1254-17/18 | 35621               | 55.307               | 10.61               |        |      |
| 3 A1254-19/20 | 36419               | 56.199               | 12.40               |        |      |
| 4 A1254-20    | 47058               | 55.251               | 10.50               |        |      |
| 5 A1260       | 14529               | 11.797               | -76.41              |        |      |
| 6 A1260-23/24 | 14529               | 15.023               | -69.95              |        |      |
| 7 A1262       | 14529               | 10.752               | -78.50              |        |      |



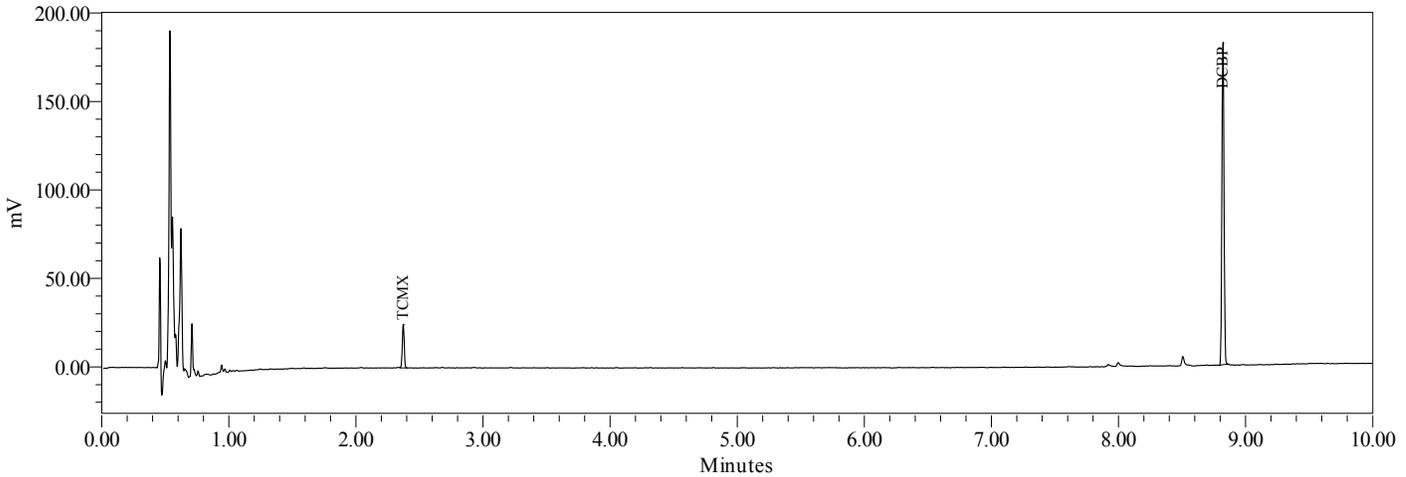
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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150605B07               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/5/2015 7:59:51 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:35:05 AM EDT |
| Sample Set Name:   | GC28F_060515b           | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:37:17 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1634-26 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.373          | vB               | 25866         | 5.308                | 106.15844 |           |
| 2 | DCBP      | 8.822          | BB               | 213962        | 52.563               |           | 105.12644 |



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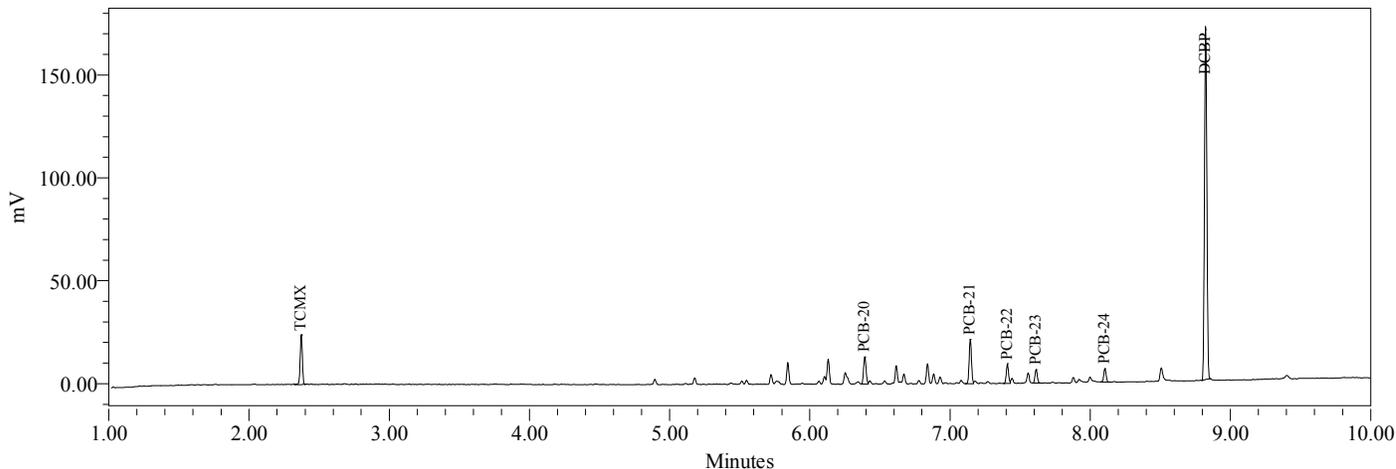
|                    |                          |                 |                              |
|--------------------|--------------------------|-----------------|------------------------------|
| Sample Name:       | CS600605A                | Sample Amount:  | 1                            |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 10:36:37 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/5/2015 11:06:16 PM EDT     |
| Sample Set Name:   | GC28F_060515c            | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes             | Current Time:   | 11:19:42 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1634-30 [A]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | VB               | 25779         | 5.290                | 105.8       |             |
| 2 PCB-20  | 6.392          | BV               | 16166         |                      |             |             |
| 3 PCB-21  | 7.145          | BV               | 24341         |                      |             |             |
| 4 PCB-22  | 7.410          | BV               | 10808         |                      |             |             |
| 5 PCB-23  | 7.614          | VV               | 7690          |                      |             |             |
| 6 PCB-24  | 8.104          | BB               | 7409          |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 198894        | 48.622               |             | 97.2        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 16166               | 14.805               | -70.39              |        |      |
| 2 A1254-17/18 | 16166               | 25.288               | -49.42              |        |      |
| 3 A1260       | 66414               | 54.339               | 8.68                | X      |      |
| 4 A1260-20    | 50249               | 57.690               | 15.38               |        |      |
| 5 A1260-23/24 | 51315               | 51.933               | 3.87                |        |      |
| 6 A1262       | 66414               | 51.917               | 3.83                |        |      |
| 7 A1268       | 15099               | 6.308                | -87.38              |        |      |

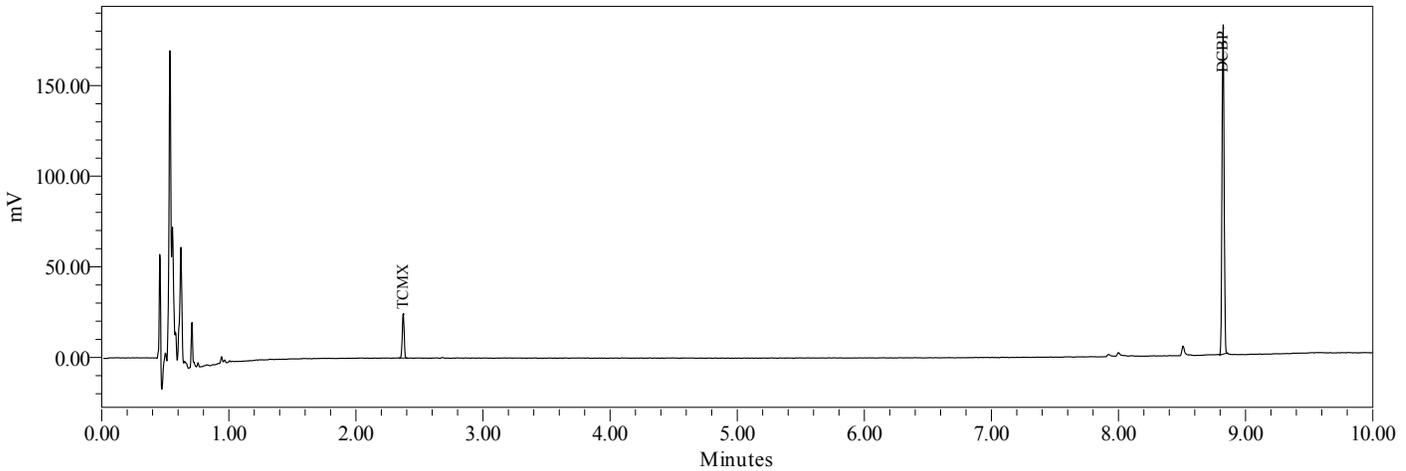


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|                    |                          |                 |                         |
|--------------------|--------------------------|-----------------|-------------------------|
| Sample Name:       | 150605B08                | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                       |
| Date Acquired:     | 6/5/2015 10:50:24 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/6/2015 9:35:41 AM EDT |
| Sample Set Name:   | GC28F_060515c            | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 9:37:39 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1634-31 [A]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | BB               | 25578         | 5.248                | 104.95192 |           |
| 2 | DCBP      | 8.823          | BB               | 209640        | 51.433               |           | 102.86515 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060144</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-15</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11966B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-17</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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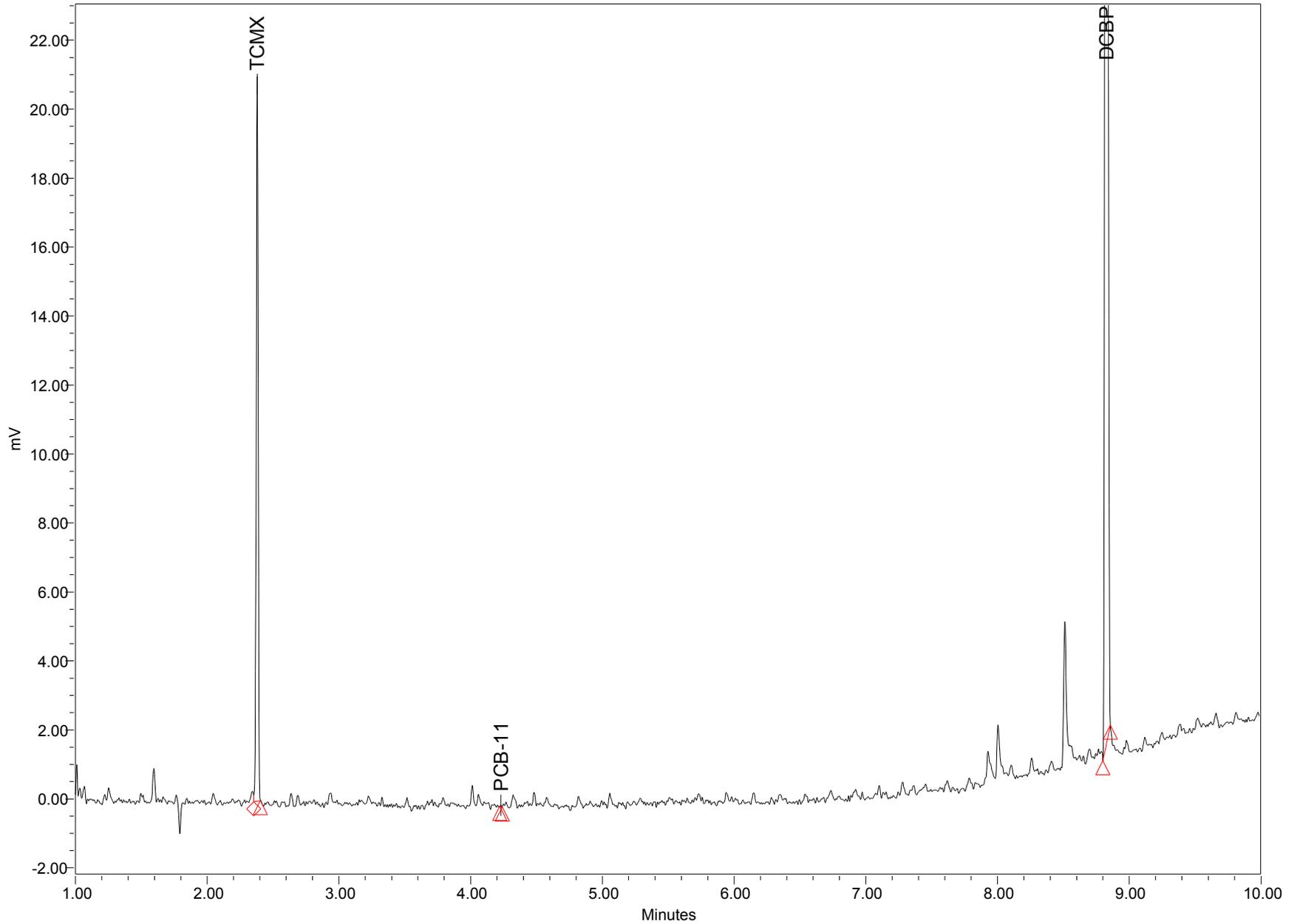
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11966B                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                            |
| Date Acquired:     | 6/5/2015 5:55:35 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/5/2015 9:00:50 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:18:43 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1634-17 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.380          | VB               | 21864         | 4.470                | 89.4        |             |
| 2 | PCB-11    | 4.229          | bb               | 22            |                      |             |             |
| 3 | DCBP      | 8.827          | BB               | 214205        | 52.627               |             | 105         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1248       | 22.0237             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 2 | A1248-14/15 | 22.0237             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11966B; Sample\_ID METHOD BLANK

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060144</u>             |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>LCS-15</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11966L</u>      |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-18</u>   |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>            |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u>   |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>    |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>           |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>          |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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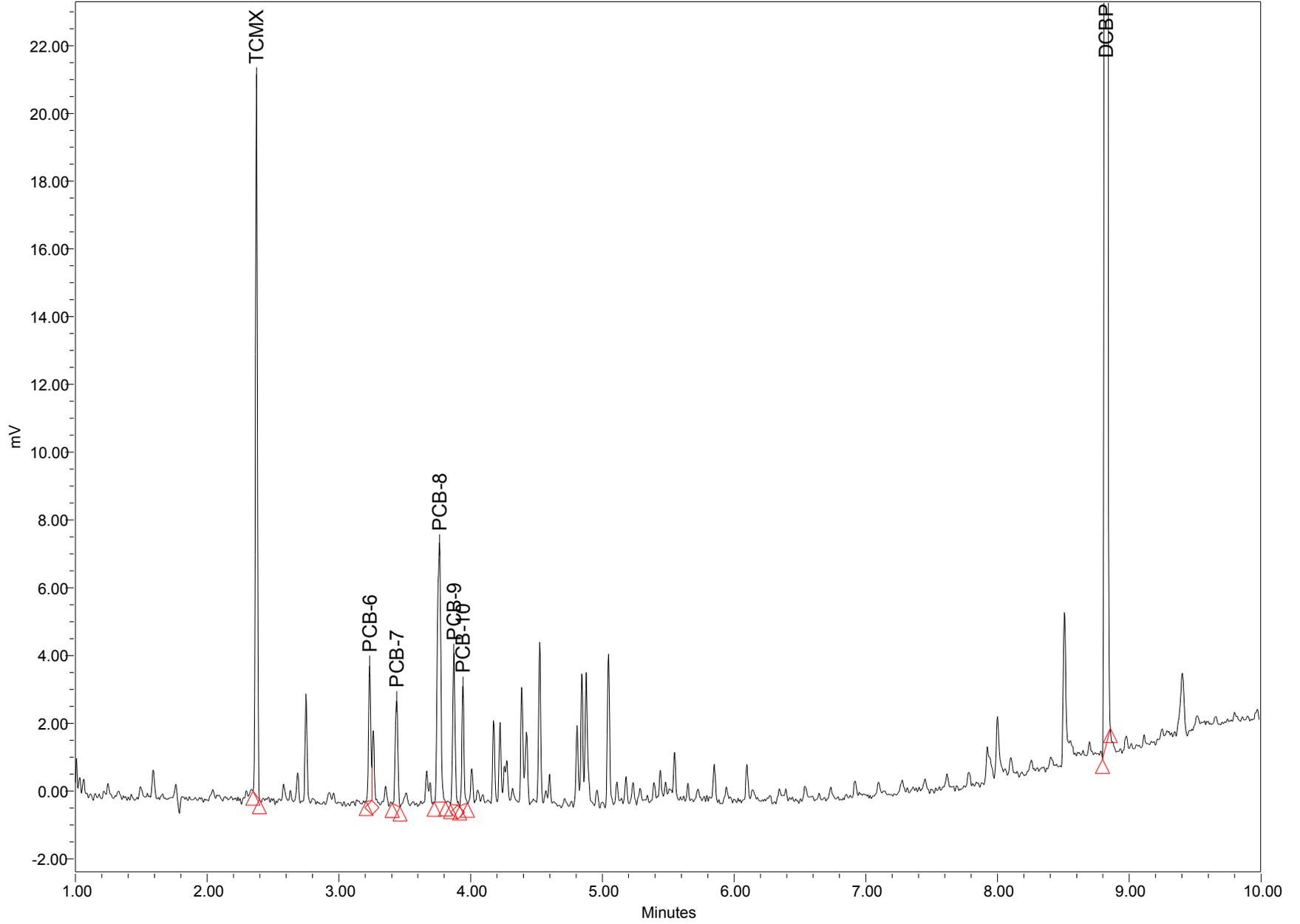
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11966L                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                            |
| Date Acquired:     | 6/5/2015 6:09:35 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/5/2015 9:01:13 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:18:49 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1634-18 [A]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.374          | BB               | 21857         | 4.468                | 89.4        |             |
| 2 | PCB-6     | 3.233          | BV               | 4525          |                      |             |             |
| 3 | PCB-7     | 3.438          | BB               | 4300          |                      |             |             |
| 4 | PCB-8     | 3.763          | BB               | 13857         |                      |             |             |
| 5 | PCB-9     | 3.873          | BV               | 5592          |                      |             |             |
| 6 | PCB-10    | 3.941          | BB               | 3928          |                      |             |             |
| 7 | DCBP      | 8.823          | BB               | 210465        | 51.648               |             | 103         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32201.4684          | 38.123               | 0.19061     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27676.9213          | 63.442               | 0.31721     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8227.4005           | 39.911               | 0.19955     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32201.4684          | 48.797               | 0.24398     | 0.0250   | 0.00873  | X      |      |



SampleName AS11966L; Sample\_ID LAB CONTROL SPIKE

Sample Name: AS11966L  
Pace Analytical Services, Inc.

2 of 2  
June 09, 2015

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# CERTIFICATES OF ANALYSIS (PCB)



## Analytical Sample Results

Job Number: 15060144

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 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150605093238 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060144-01 (AS11962)       | <b>Percent Solid:</b> N/A                |

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1634-29 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 22:22 | JRS     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30951             | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 1020 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-29 |
| Aroclor 1221          | 11104-28-2 | 0.127         | 0.0250 | 1.00            | PB    | GC28F-1634-29 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-29 |
| Aroclor 1242          | 53469-21-9 | 0.0418        | 0.0250 | 1.00            | AD    | GC28F-1634-29 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-29 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-29 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-29 |
| Total PCB Amount > RL | 1336-36-3  | 0.1688        |        | 1.00            |       | GC28F-1634-29 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 99.5       | 70.0-130   |                | GC28F-1634-29 |
| Decachlorobiphenyl      | 2051-24-3 | 98.2       | 70.0-130   |                | GC28F-1634-29 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060144

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150604085439 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060144-02 (AS11963)       | <b>Percent Solid:</b> N/A                |

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1634-22 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 19:04 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30951         | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 1070 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-22 |
| Aroclor 1221          | 11104-28-2 | 0.179         | 0.0250 | 1.00            | PB    | GC28F-1634-22 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-22 |
| Aroclor 1242          | 53469-21-9 | 0.0321        | 0.0250 | 1.00            | AD    | GC28F-1634-22 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-22 |
| Aroclor 1254          | 11097-69-1 | 0.0112        | 0.0250 | 1.00            | AF,J  | GC28F-1634-22 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-22 |
| Total PCB Amount > RL | 1336-36-3  | 0.2223        |        | 1.00            |       | GC28F-1634-22 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 95.8       | 70.0-130   |                | GC28F-1634-22 |
| Decachlorobiphenyl      | 2051-24-3 | 100        | 70.0-130   |                | GC28F-1634-22 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060144

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150604085544  
**Lab Sample ID:** 15060144-03 (AS11964)

**Collection Date:** 06/04/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/05/2015 11:30  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1634-23 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 19:18 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30951         | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-23 |
| Aroclor 1221          | 11104-28-2 | 0.0401        | 0.0250 | 1.00            | PB    | GC28F-1634-23 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-23 |
| Aroclor 1242          | 53469-21-9 | 0.0137        | 0.0250 | 1.00            | AD,J  | GC28F-1634-23 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-23 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-23 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-23 |
| Total PCB Amount > RL | 1336-36-3  | 0.0538        |        | 1.00            |       | GC28F-1634-23 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 95.8       | 70.0-130   |                | GC28F-1634-23 |
| Decachlorobiphenyl      | 2051-24-3 | 95.6       | 70.0-130   |                | GC28F-1634-23 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060144

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/04/2015     |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER            |
| <b>Client Sample ID:</b> NRS-BDUP-T150604085511 | <b>Received Date:</b> 06/05/2015 11:30 |
| <b>Lab Sample ID:</b> 15060144-04 (AS11965)     | <b>Percent Solid:</b> N/A              |

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1634-24 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 19:32 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30951             | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-24 |
| Aroclor 1221          | 11104-28-2 | 0.149         | 0.0250 | 1.00            | PB    | GC28F-1634-24 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-24 |
| Aroclor 1242          | 53469-21-9 | 0.0163        | 0.0250 | 1.00            | AD,J  | GC28F-1634-24 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-24 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-24 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-24 |
| Total PCB Amount > RL | 1336-36-3  | 0.1653        |        | 1.00            |       | GC28F-1634-24 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 97.2       | 70.0-130   |                | GC28F-1634-24 |
| Decachlorobiphenyl      | 2051-24-3 | 98.2       | 70.0-130   |                | GC28F-1634-24 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2114 Date In Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060415B9P11 Date Out Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29197   | BLANK-70       | AS10963B      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQZ        | 1000             | 0.1130         | 0.1130       | 0                 |                    |       |      |          |
| 29198   | LCS-70         | AS10963L      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR0        | 250              | 0.1119         | 0.1340       | 88.4              | 100                | 88.4  |      |          |
| 29195   | 15050566-01    | AS10963       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR1        | 80               | 0.1186         | 0.1350       | 205               |                    |       |      |          |
| 29196   | 15050566-02    | AS10964       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR2        | 400              | 0.1126         | 0.1178       | 13                |                    |       |      |          |
| 29199   | 15060010-01    | AS11265       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR3        | 980              | 0.1141         | 0.1229       | 8.98              |                    |       |      |          |
| 29200   | 15060010-02    | AS11266       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR4        | 1020             | 0.1263         | 0.1309       | 4.51              |                    |       |      |          |
| 29201   | 15060144-01    | AS11962       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR5        | 900              | 0.1162         | 0.1182       | 2.22              |                    |       |      |          |
| 29202   | 15060144-02    | AS11963       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ4        | 1000             | 0.1102         | 0.1115       | 1.3               |                    |       |      |          |
| 29203   | 15060144-03    | AS11964       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ5        | 1050             | 0.1132         | 0.1196       | 6.1               |                    |       |      |          |
| 29204   | 15060144-04    | AS11965       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ6        | 980              | 0.1256         | 0.1267       | 1.12              |                    |       |      |          |
| 29205   | 15060145-01    | AS11966       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ7        | 960              | 0.1270         | 0.1384       | 11.9              |                    |       |      |          |
| 29207   | 15060145-01DUP | AS11966D      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ9        | 900              | 0.1107         | 0.1295       | 20.9              |                    |       | 55.0 |          |
| 29206   | 15060145-02    | AS11967       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ8        | 880              | 0.1180         | 0.1273       | 10.6              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/9/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060144

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150605093238 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060144-01 (AS11962)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.22          | 1.11 | 1.11            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060144

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
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|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150604085439 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060144-02 (AS11963)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.30          | 1.00 | 1.00            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060144

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/04/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-187.70-T150604085544 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060144-03 (AS11964)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 6.10          | 0.952 | 0.95            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060144

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/04/2015     |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER            |
| <b>Client Sample ID:</b> NRS-BDUP-T150604085511 | <b>Received Date:</b> 06/05/2015 11:30 |
| <b>Lab Sample ID:</b> 15060144-04 (AS11965)     | <b>Percent Solid:</b> N/A              |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.12          | 1.02 | 1.02            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 05, 2015

**Lab Report ID:** 15060145

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15060145) consists of 2 water samples received on 06/05/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS11966              | FRS-LOC5-T150605081249 | 06/05/2015 06:00       |
| AS11967              | FRS-WAFA-T150605082114 | 06/05/2015 06:00       |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 06/05/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Sample (LAB ID: AS11966) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) The relative percent difference between the sample and the duplicate sample was outside quality acceptance limits for sample (LAB ID: AS11966D). Please see associated duplicate form for details.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



395 West Grand Avenue Monroeville, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150605093743PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID        | QA/QC | Matrix ** | Date Collected | Time Collected | Media * | # Containers | TEST REQUESTED | METHOD                 | MS       | MSD | LD | Turn Around Time (hrs) | Preservative |       |
|-------------------|------------------------|-------|-----------|----------------|----------------|---------|--------------|----------------|------------------------|----------|-----|----|------------------------|--------------|-------|
| 001               | FRS-LOC5-T150605081249 | ENV   | W         | 06/05/2015     | 06:00          | W       | 4            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |         |              |                | Total Suspended Solids | SM 2540D | N   | N  | Y                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |
| 002               | FRS-WAFA-T150605082114 | ENV   | W         | 06/05/2015     | 06:00          | W       | 3            |                |                        |          |     |    |                        |              |       |
|                   |                        |       |           |                |                |         |              |                | Total Suspended Solids | SM 2540D | N   | N  | N                      | 24           | 4degC |
|                   |                        |       |           |                |                |         |              |                | Aroclor Water          | NE273_04 | N   | N  | N                      | 24           | 4degC |

AST1966

AST1967

3

| Comments: Temp: 3.7, 3.5 COC seals: (4) |                               |                               |                               |                  |              |
|---|-------------------------------|-------------------------------|-------------------------------|------------------|--------------|
| Relinquished by:                        | Received by:                  | Relinquished by:              | Received by:                  | Relinquished by: | Received by: |
| Signature: <i>[Signature]</i>           | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature: <i>[Signature]</i> | Signature:       | Signature:   |
| Print Name: C. Sabasky                  | Print Name: MR                | Print Name: MR                | Print Name: Austin Hays       | Print Name:      | Print Name:  |
| Company: Anchor QEA                     | Company: PACE                 | Company: PACE                 | Company: PACE                 | Company:         | Company:     |
| Date/Time: 6/5/15 10:10                 | Date/Time: 6-5-15 10:55       | Date/Time: 6-5-15 11:30       | Date/Time: 6-5-15 11:30       | Date/Time:       | Date/Time:   |

Date Printed: 6/5/2015

\* S= SEDIMENT, W= WATER, PW= PORE WATER \*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



CLIENT NAME: GE  
PROJECT: DR RAMP

COURIER: FedEx  UPS  Client  Pace  Other   
 TRACKING # NA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A   
 PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None   
 THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 3.7, 3.5  
 BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

COMMENTS:

|  |  |  |
|--|--|--|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 1.   |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 2.   |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 3. f   |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 4.   |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.   |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.   |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 7. <u>24 hr</u>  |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 8.   |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.   |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              |  |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.  |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.  |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 12.  |
| - Includes date/time/ID/Analysis   |  |  |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.  |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| - Exceptions that are not checked: VOA   |  | Initial when completed: <u>NA</u> Lot # of added preservative: <u>NA</u> |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.  |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.  |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Pace Trip Blank Lot #: <u>NA</u>   |  |  |

Sample Receipt form filled in: ATM 6/5/15 Line-Out (Includes Copying Shipping Documents and verifying sample pH): ATM 6/5/15  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS): ATM 6/5/15  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): ATM 6/5/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060145

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060145  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/05/2015 11:30  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 2  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.7, 3.5 °C

**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150605081249 (AS11966) | *24 HOUR* 06-06-15        | 06/05/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-06-15        | 06/05/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150605082114 (AS11967) | *24 HOUR* 06-06-15        | 06/05/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-06-15        | 06/05/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

- SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)
- Total Suspended Solids
- SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/05/15

Batch ID: 30951

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307633        | PBLK-15       | AS11966B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 2       | 307632        | LCS-15        | AS11966L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 3       | 307626        | 15060145-01   | AS11966  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 845                 | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 4       | 307627        | 15060145-02   | AS11967  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 5       | 307628        | 15060144-01   | AS11962  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1020                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 6       | 307629        | 15060144-02   | AS11963  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 7       | 307630        | 15060144-03   | AS11964  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |
| 8       | 307631        | 15060144-04   | AS11965  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/05                    | NA                          | 06/05                 | 06/05               | 5                 | 06/05    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Jessica Ramdass*

Jessica Ramdass

Peer Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

# PCB SCREEN SHEET

**LRF: 15060145**

**Batch ID: 30951**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS11966B      | GC28F-1634-17 | Water  | 06/05/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11966L      | GC28F-1634-18 | Water  | 06/05/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11966RR1    | GC28F-1635-6  | Water  | 06/05/15  | 845                  | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11967       | GC28F-1634-20 | Water  | 06/05/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11962RR1    | GC28F-1634-29 | Water  | 06/05/15  | 1020                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11963       | GC28F-1634-22 | Water  | 06/05/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11964       | GC28F-1634-23 | Water  | 06/05/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |
| AS11965       | GC28F-1634-24 | Water  | 06/05/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Amie Hamilton    | NA               |

5

**COMMENTS:** \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060145

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-15        | AS11966B      | GC28F-1634-17 | 89.4                   | 105                    |           |           | 0         |
| LCS-15         | AS11966L      | GC28F-1634-18 | 89.4                   | 103                    |           |           | 0         |
| 15060145-01RR1 | AS11966RR1    | GC28F-1635-6  | 92.4                   | 94.8                   |           |           | 0         |
| 15060145-02    | AS11967       | GC28F-1634-20 | 96.5                   | 98.2                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060145</u>                           |
| LCS Lab ID: <u>LCS-15</u>                | Blank Sample ID: <u>PBLK-15</u>                   |
| LCS File ID: <u>GC28F-1634-18</u>        | Method Blank File ID: <u>GC28F-1634-17</u>        |
| LCS Inj Date: <u>06/05/2015 18:09:35</u> | Method Blank Inj Date: <u>06/05/2015 17:55:35</u> |
| LCS ID: <u>AS11966L</u>                  | Method Blank ID: <u>AS11966B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.244                       | 97.6                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060145</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-15</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS11966B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1634-17</u> |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/05/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/05/2015</u>  |
|  | Time Analyzed: <u>17:55:35</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-15(LAB CONTROL SPIKE) | AS11966L         | GC28F-1634-18  | 06/05/2015 18:09:35     |
| FRS-WAFA-T150605082114    | AS11967          | GC28F-1634-20  | 06/05/2015 18:37:04     |
| FRS-LOC5-T150605081249    | AS11966RR1       | GC28F-1635-6   | 06/06/2015 08:42:41     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060145</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060145-01RR1</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-LOC5-T150605081249</u> |
| Sample wt(Dry)/vol: <u>845 mL</u>                                      | Lab Sample ID: <u>AS11966RR1</u>         |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1635-6</u>         |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/05/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/06/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0296                | U  |
| 11104-28-2 | Aroclor 1221  | 0.224                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0296                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0325                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0296                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0296                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0296                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11966RR1              | Sample Amount (L) : | 0.8450                  |
| Sample ID:         | FRS-LOC5-T150605081249  | Dilution:           | 5                       |
| Date Acquired:     | 6/6/2015 8:42:41 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/6/2015 9:16:31 AM EDT |
| Sample Set Name:   | GC28F_w_060615          | User Name:          | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 9:22:13 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1635-6 [m]        |

**Peak Results**

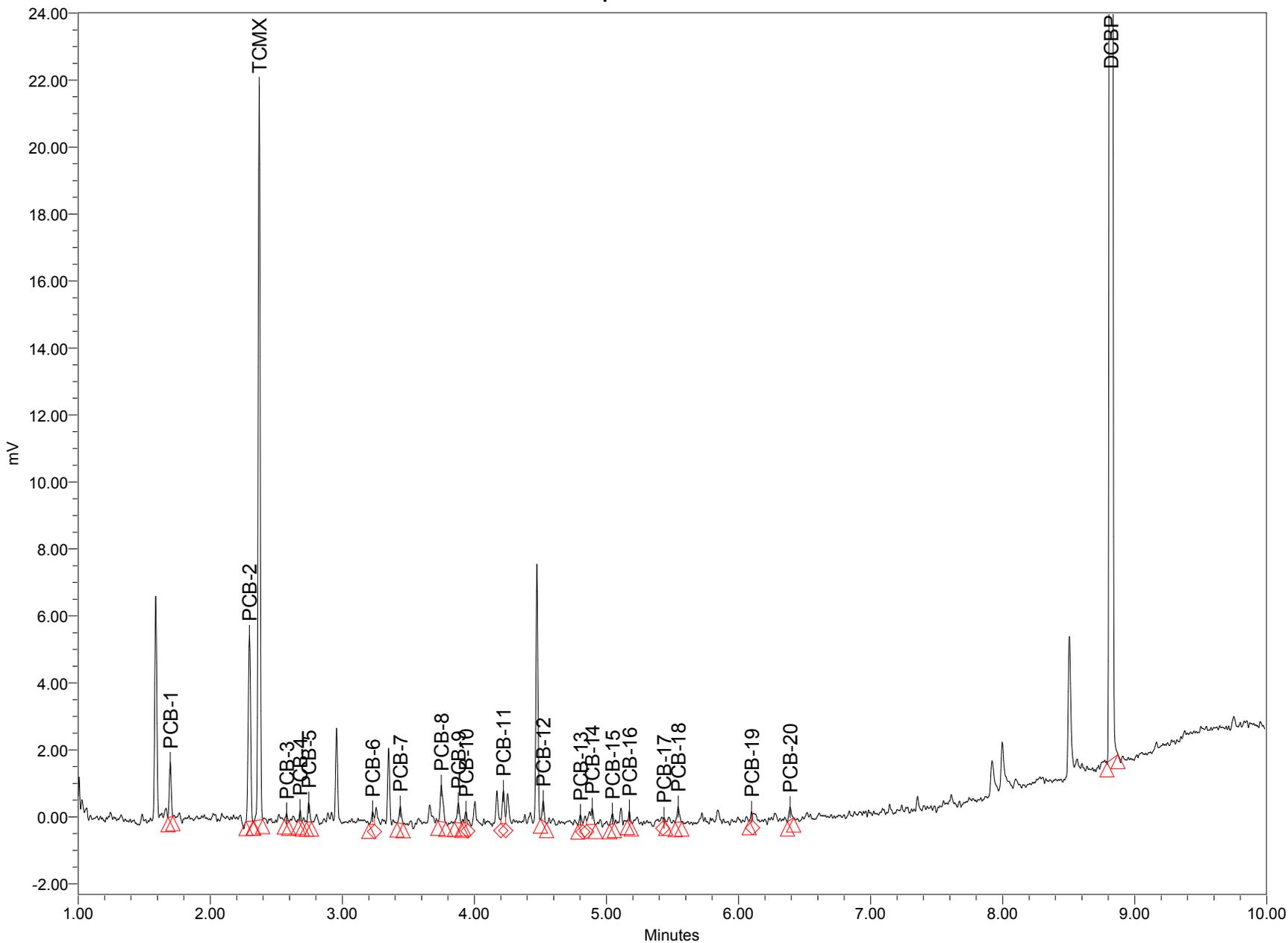
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.697          | bb               | 1601          |                      |             |             |
| 2  | PCB-2     | 2.296          | bB               | 6885          |                      |             |             |
| 3  | TCMX      | 2.370          | Bb               | 22578         | 4.619                | 92.4        |             |
| 4  | PCB-3     | 2.578          | bb               | 209           |                      |             |             |
| 5  | PCB-4     | 2.680          | bb               | 258           |                      |             |             |
| 6  | PCB-5     | 2.746          | bb               | 577           |                      |             |             |
| 7  | PCB-6     | 3.230          | bV               | 461           |                      |             |             |
| 8  | PCB-7     | 3.439          | bb               | 592           |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 1575          |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 730           |                      |             |             |
| 11 | PCB-10    | 3.936          | bv               | 371           |                      |             |             |
| 12 | PCB-11    | 4.219          | VV               | 1167          |                      |             |             |
| 13 | PCB-12    | 4.521          | bb               | 599           |                      |             |             |
| 14 | PCB-13    | 4.803          | bV               | 346           |                      |             |             |
| 15 | PCB-14    | 4.892          | Vb               | 1049          |                      |             |             |
| 16 | PCB-15    | 5.044          | bb               | 356           |                      |             |             |
| 17 | PCB-16    | 5.173          | bb               | 227           |                      |             |             |
| 18 | PCB-17    | 5.435          | vb               | 83            |                      |             |             |
| 19 | PCB-18    | 5.543          | bb               | 580           |                      |             |             |
| 20 | PCB-19    | 6.099          | bv               | 235           |                      |             |             |
| 21 | PCB-20    | 6.390          | bb               | 497           |                      |             |             |
| 22 | DCBP      | 8.820          | bb               | 194175        | 47.387               |             | 94.8        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 3727.9738           | 4.254                | 0.02517     | 0.0296   | 0.0103   | NR     |      |
| 2 | A1221      | 9529.2008           | 37.930               | 0.22444     | 0.0296   | 0.0103   | X      | PB   |
| 3 | A1221-2    | 2644.0048           | 11.668               | 0.06904     | 0.0296   | 0.0103   | NR     |      |
| 4 | A1221-5    | 8952.6686           | 71.372               | 0.42232     | 0.0296   | 0.0103   | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 3843.7615           | 8.802               | 0.05208     | 0.0296   | 0.0103   | NR     |      |
| 6  | A1232-8/9   | 1539.2083           | 7.080               | 0.04189     | 0.0296   | 0.0103   | NR     |      |
| 7  | A1242       | 3727.9738           | 5.491               | 0.03249     | 0.0296   | 0.0103   | X      | AD   |
| 8  | A1248       | 3517.0903           | 4.239               | 0.02508     | 0.0296   | 0.0103   | NR     |      |
| 9  | A1248-11/15 | 1993.7922           | 4.128               | 0.02442     | 0.0296   | 0.0103   | NR     |      |
| 10 | A1248-14/15 | 2112.0605           | 5.606               | 0.03317     | 0.0296   | 0.0103   | NR     |      |
| 11 | A1254       | 1622.2208           | 1.729               | 0.01023     | 0.0296   | 0.0103   | NR     |      |
| 12 | A1254-17/18 | 959.1626            | 1.826               | 0.01081     | 0.0296   | 0.0103   | NR     |      |
| 13 | A1254-19/20 | 889.8089            | 1.543               | 0.00913     | 0.0296   | 0.0103   | NR     |      |
| 14 | A1254-20    | 1124.8137           | 1.638               | 0.00969     | 0.0296   | 0.0103   | NR     |      |
| 15 | A1260       | 497.4071            | 0.293               | 0.00173     | 0.0296   | 0.0103   | NR     |      |
| 16 | A1260-23/24 | 497.4071            | 0.944               | 0.00559     | 0.0296   | 0.0103   | NR     |      |
| 17 | A1262       | 497.4071            |                     |             |          |          | NR     |      |



SampleName AS11966RR1; Sample\_ID FRS-LOC5-T150605081249

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060145</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060145-02</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-WAFA-T150605082114</u> |
| Sample wt(Dry)/vol:   | <u>1070 mL</u>  | Lab Sample ID:   | <u>AS11967</u>                |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1634-20</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/05/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/05/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/05/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.161                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0461                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS11967                 | Sample Amount (L) : | 1.0700                  |
| Sample ID:         | FRS-WAFA-T150605082114  | Dilution:           | 5                       |
| Date Acquired:     | 6/5/2015 6:37:04 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/6/2015 9:58:56 AM EDT |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:00:47 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1634-20 [m]       |

**Peak Results**

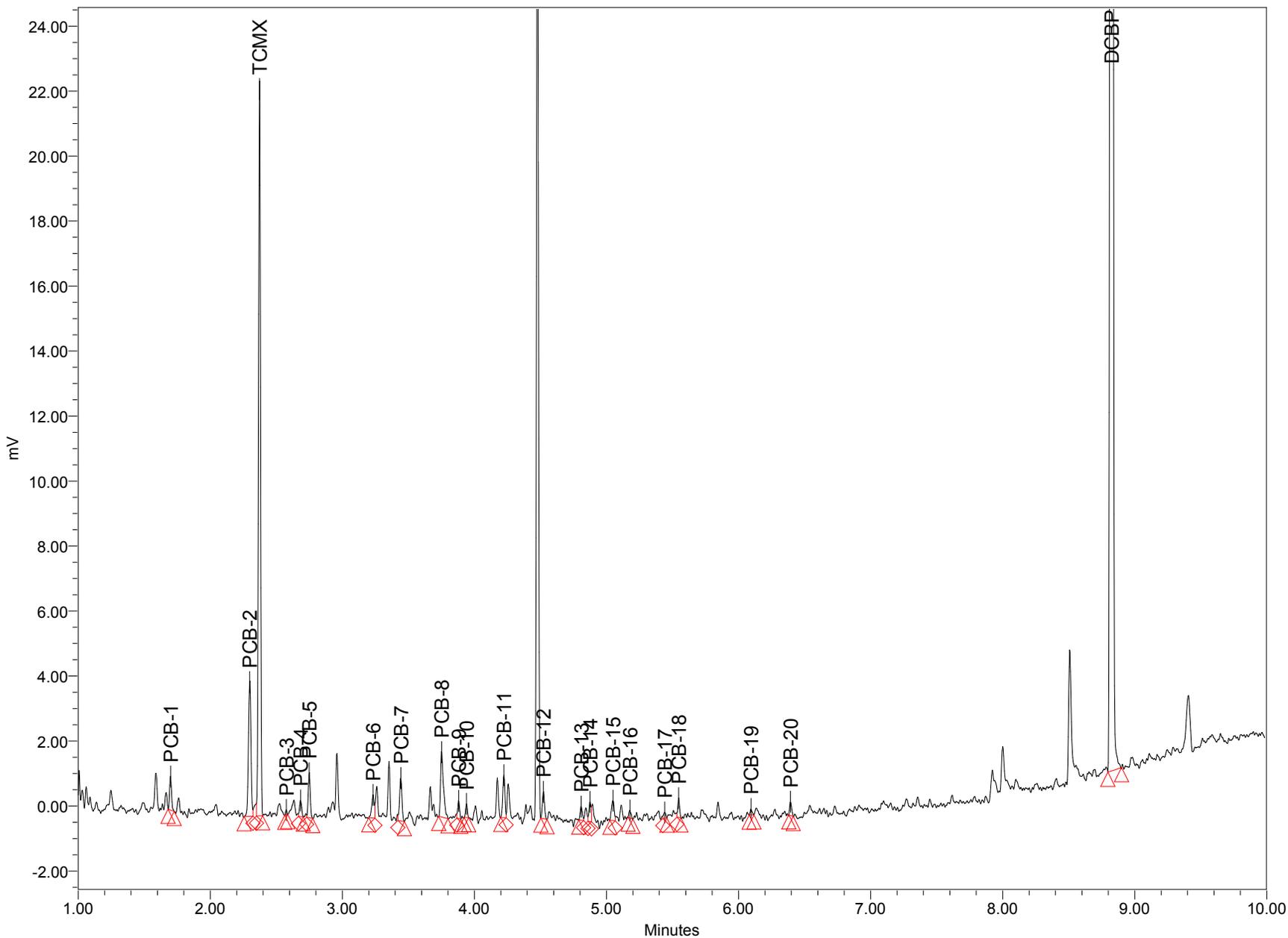
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bb               | 1050          |                      |             |             |
| 2  | PCB-2     | 2.299          | bV               | 5458          |                      |             |             |
| 3  | TCMX      | 2.373          | vB               | 23569         | 4.827                | 96.5        |             |
| 4  | PCB-3     | 2.575          | bb               | 114           |                      |             |             |
| 5  | PCB-4     | 2.684          | vB               | 591           |                      |             |             |
| 6  | PCB-5     | 2.749          | Vb               | 1443          |                      |             |             |
| 7  | PCB-6     | 3.232          | bV               | 952           |                      |             |             |
| 8  | PCB-7     | 3.442          | Vb               | 1636          |                      |             |             |
| 9  | PCB-8     | 3.752          | bb               | 3065          |                      |             |             |
| 10 | PCB-9     | 3.881          | vb               | 547           |                      |             |             |
| 11 | PCB-10    | 3.940          | bb               | 398           |                      |             |             |
| 12 | PCB-11    | 4.223          | bV               | 1456          |                      |             |             |
| 13 | PCB-12    | 4.522          | bb               | 931           |                      |             |             |
| 14 | PCB-13    | 4.808          | bV               | 481           |                      |             |             |
| 15 | PCB-14    | 4.876          | VV               | 687           |                      |             |             |
| 16 | PCB-15    | 5.049          | bv               | 895           |                      |             |             |
| 17 | PCB-16    | 5.177          | bb               | 253           |                      |             |             |
| 18 | PCB-17    | 5.440          | vb               | 201           |                      |             |             |
| 19 | PCB-18    | 5.547          | vb               | 543           |                      |             |             |
| 20 | PCB-19    | 6.094          | bb               | 182           |                      |             |             |
| 21 | PCB-20    | 6.393          | bb               | 455           |                      |             |             |
| 22 | DCBP      | 8.824          | Bb               | 200755        | 49.108               |             | 98.2        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 6597.3013           | 7.667                | 0.03583     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 8655.7697           | 34.459               | 0.16102     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 3197.6869           | 13.982               | 0.06534     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 7213.0870           | 57.586               | 0.26909     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 7088.0086           | 16.240              | 0.07589     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 3476.5847           | 16.590              | 0.07752     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 6597.3013           | 9.855               | 0.04605     | 0.0250   | 0.00873  | X      | AD   |
| 8  | A1248       | 4449.4209           | 5.501               | 0.02570     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 2098.3227           | 4.345               | 0.02030     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 2867.7829           | 7.729               | 0.03612     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1634.4402           | 1.740               | 0.00813     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 890.0683            | 1.720               | 0.00804     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 997.1777            | 1.708               | 0.00798     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 1179.3464           | 1.702               | 0.00795     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 455.0938            | 0.258               | 0.00121     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 455.0938            | 0.902               | 0.00421     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 455.0938            |                     |             |          |          | NR     |      |



SampleName AS11967; Sample\_ID FRS-WAFA-T150605082114



|                    |                        |                      |                       |
|--------------------|------------------------|----------------------|-----------------------|
| Lab ID:            | AS11967                | Current Date Time:   | 6/9/2015 14:17:50     |
| Sample ID:         | FRS-WAFA-T150605082114 | LIMS File ID:        | GC28F-1634-20         |
| Matrix:            | Water                  | Calibration ID:      | 6976                  |
| Date Analyzed:     | 06/05/2015 6:37:04 PM  | Calibration Date(s): | 03/12/2015,03/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                       |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{8655.769700 - -16.185578}{251.658479} = 34.4592 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{34.4592 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1070 \text{ mL}} = 0.161 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060145

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |               |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060145

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |                  |                |                         |                               |                               |
|--|---------------------------|------------------|----------------|-------------------------|-------------------------------|-------------------------------|
| TCMX RT: <u>2.38</u> DCBP RT: <u>8.83</u>                            |                           |                  |                |                         |                               |                               |
|  | CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED | TCMX<br>RT #<br>(+/-0.05 min) | DCBP<br>RT #<br>(+/-0.10 min) |
| 39   | A1262 50 PPB              | 031262D          | GC28F-1565-41  | 03/12/2015 22:44:17     | 2.38                          | 8.83                          |
| 40   | A1262 100 PPB             | 031262E          | GC28F-1565-42  | 03/12/2015 22:58:33     | 2.38                          | 8.83                          |
| 41   | A1268 5 PPB               | 031268A          | GC28F-1565-43  | 03/12/2015 23:12:19     | 2.38                          | 8.83                          |
| 42   | A1268 10 PPB              | 031268B          | GC28F-1565-44  | 03/12/2015 23:26:09     | 2.38                          | 8.83                          |
| 43   | A1268 20 PPB              | 031268C          | GC28F-1565-45  | 03/12/2015 23:40:16     | 2.38                          | 8.83                          |
| 44   | A1268 50 PPB              | 031268D          | GC28F-1565-46  | 03/12/2015 23:54:28     | 2.38                          | 8.83                          |
| 45   | A1268 100 PPB             | 031268E          | GC28F-1565-47  | 03/13/2015 00:08:35     | 2.38                          | 8.83                          |
| 46   | A1016 50 PPB              | CS160312A        | GC28F-1565-49  | 03/13/2015 00:36:30     | 2.38                          | 8.83                          |
| 47   | A1221 50 PPB              | CS210312A        | GC28F-1565-50  | 03/13/2015 00:50:17     | 2.38                          | 8.83                          |
| 48   | A1232 50 PPB              | CS320312A        | GC28F-1565-51  | 03/13/2015 01:04:04     | 2.38                          | 8.83                          |
| 49   | A1242 50 PPB              | CS420312A        | GC28F-1565-52  | 03/13/2015 01:17:52     | 2.38                          | 8.83                          |
| 50   | A1248 50 PPB              | CS480312A        | GC28F-1565-53  | 03/13/2015 01:31:59     | 2.38                          | 8.83                          |
| 51   | A1254 50 PPB              | CS540312A        | GC28F-1565-54  | 03/13/2015 01:45:56     | 2.38                          | 8.83                          |
| 52   | A1260 50 PPB              | CS600312A        | GC28F-1565-55  | 03/13/2015 01:59:41     | 2.38                          | 8.83                          |
| 53   | A1262 50 PPB              | CS620312A        | GC28F-1565-56  | 03/13/2015 02:13:43     | 2.38                          | 8.83                          |
| 54   | A1268 50 PPB              | CS680312A        | GC28F-1565-57  | 03/13/2015 02:27:53     | 2.38                          | 8.83                          |
| 55   | HEXANE BLANK-SURR         | 150312B04        | GC28F-1565-58  | 03/13/2015 02:41:55     | 2.38                          | 8.83                          |
| 56   | A1242 50 PPB              | CS420605A        | GC28F-1634-15  | 06/05/2015 17:15:36     | 2.37                          | 8.82                          |
| 57   | HEXANE BLANK-SURR         | 150605B06        | GC28F-1634-16  | 06/05/2015 17:29:14     | 2.37                          | 8.82                          |
| 58   | PBLK-15(METHOD BLANK)     | AS11966B         | GC28F-1634-17  | 06/05/2015 17:55:35     | 2.38                          | 8.83                          |
| 59   | LCS-15(LAB CONTROL SPIKE) | AS11966L         | GC28F-1634-18  | 06/05/2015 18:09:35     | 2.37                          | 8.82                          |
| 60   | FRS-WAFA-T150605082114    | AS11967          | GC28F-1634-20  | 06/05/2015 18:37:04     | 2.37                          | 8.82                          |
| 61   | ZZZZZ                     | ZZZZZ            | GC28F-1634-22  | 06/05/2015 19:04:53     | 2.37                          | 8.82                          |
| 62   | ZZZZZ                     | ZZZZZ            | GC28F-1634-23  | 06/05/2015 19:18:41     | 2.37                          | 8.83                          |
| 63   | ZZZZZ                     | ZZZZZ            | GC28F-1634-24  | 06/05/2015 19:32:29     | 2.37                          | 8.82                          |
| 64   | A1254 50 PPB              | CS540605A        | GC28F-1634-25  | 06/05/2015 19:46:25     | 2.37                          | 8.82                          |
| 65   | HEXANE BLANK-SURR         | 150605B07        | GC28F-1634-26  | 06/05/2015 19:59:51     | 2.37                          | 8.82                          |
| 66   | A1016 50 PPB              | CS160606A        | GC28F-1635-2   | 06/06/2015 07:37:02     | 2.37                          | 8.82                          |
| 67   | HEXANE BLANK-SURR         | 150606B02        | GC28F-1635-3   | 06/06/2015 07:50:52     | 2.37                          | 8.82                          |
| 68   | FRS-LOC5-T150605081249    | AS11966RR1       | GC28F-1635-6   | 06/06/2015 08:42:41     | 2.37                          | 8.82                          |
| 69   | A1221 50 PPB              | CS210606A        | GC28F-1635-7   | 06/06/2015 08:56:32     | 2.37                          | 8.82                          |
| 70   | HEXANE BLANK-SURR         | 150606B05        | GC28F-1635-8   | 06/06/2015 09:10:23     | 2.37                          | 8.82                          |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060145

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060145

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

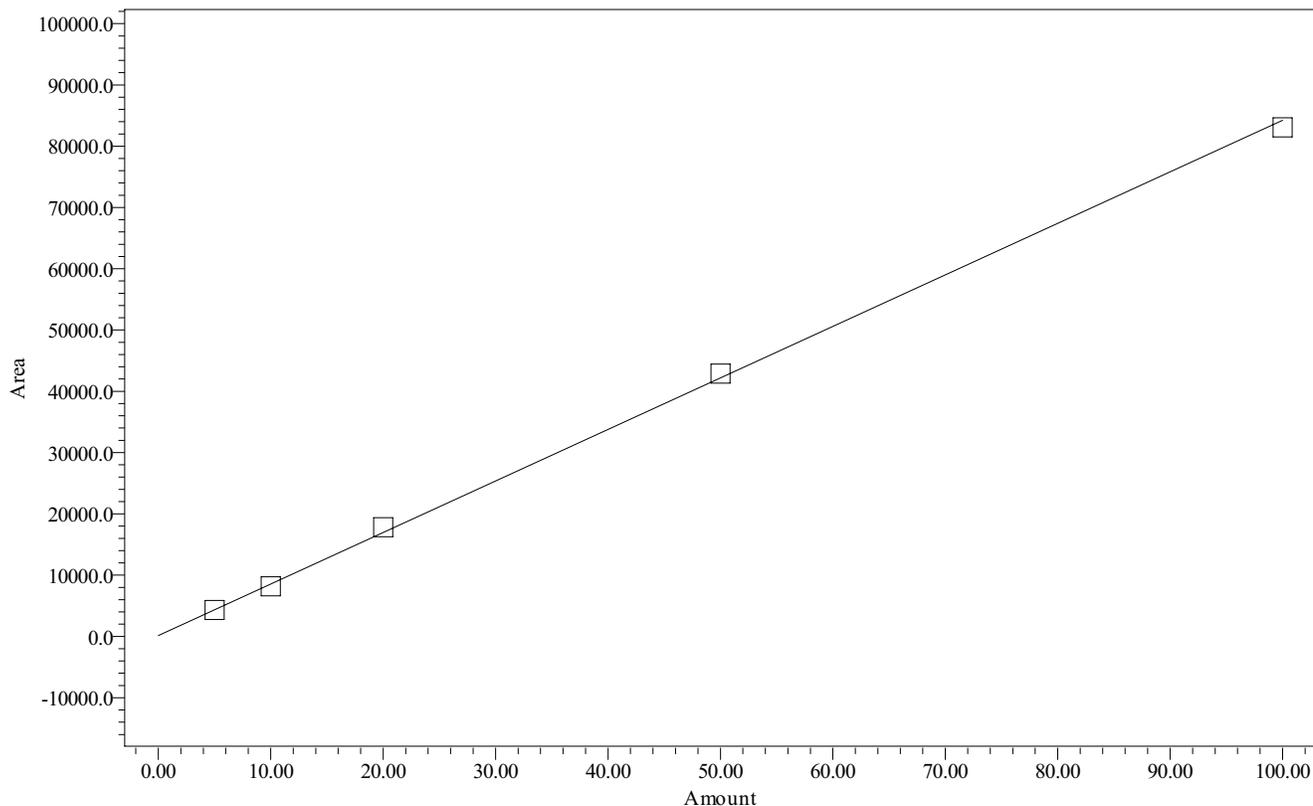
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**Phone: (518) 346-4592 Fax: (518) 381-6055**

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1016                    | Coefficient constant A:                       | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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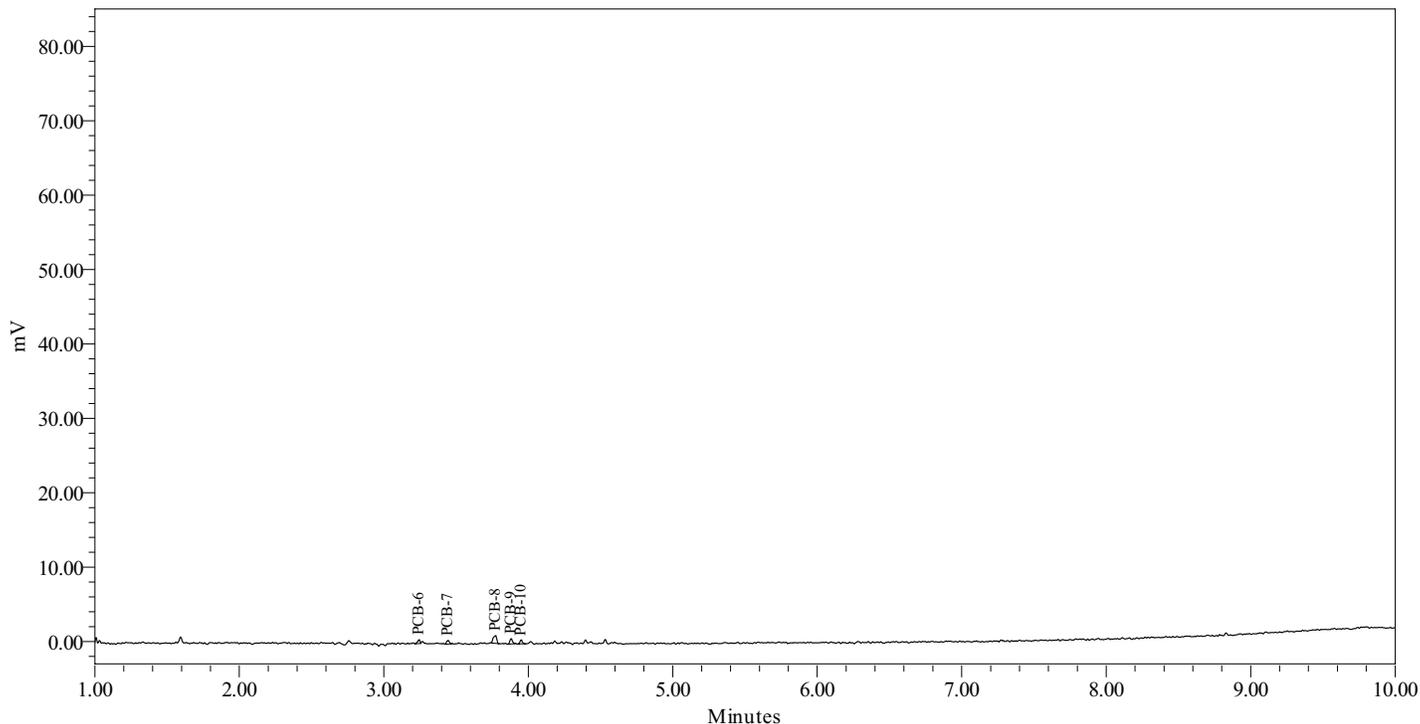
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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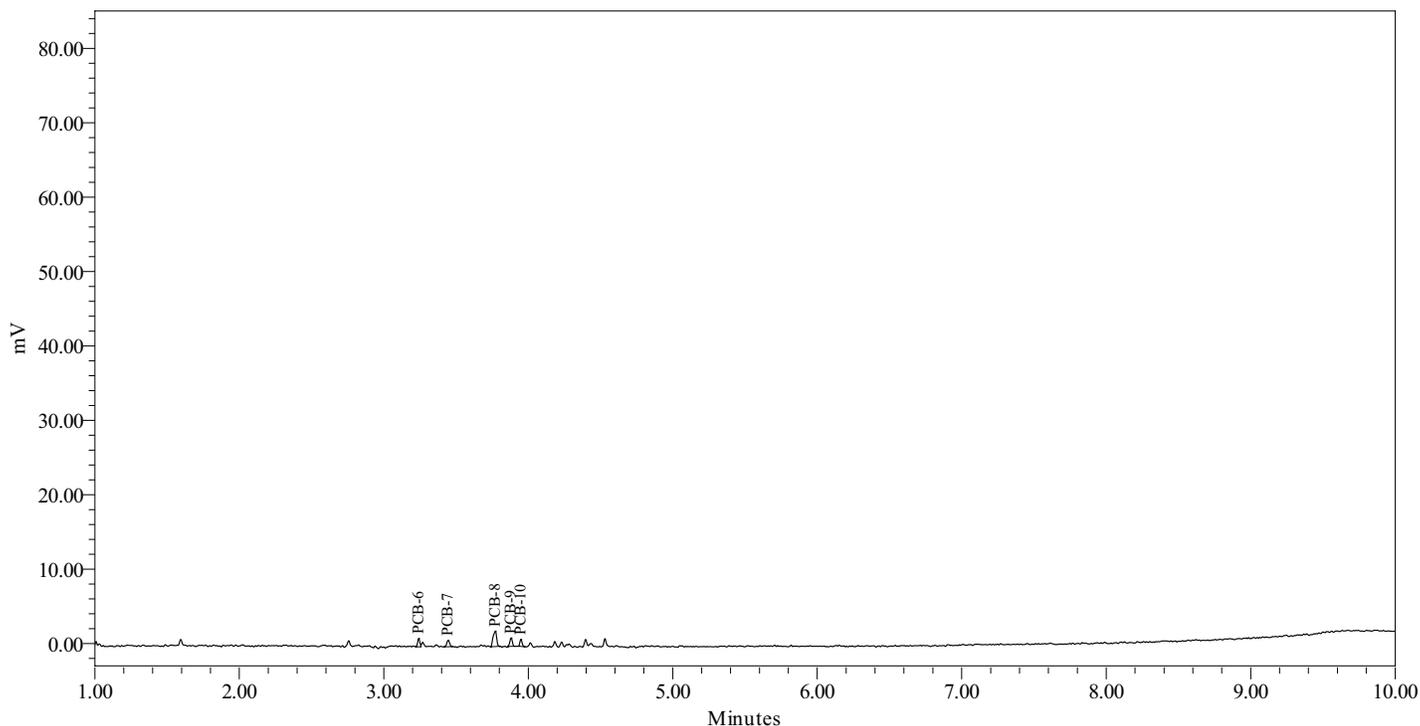
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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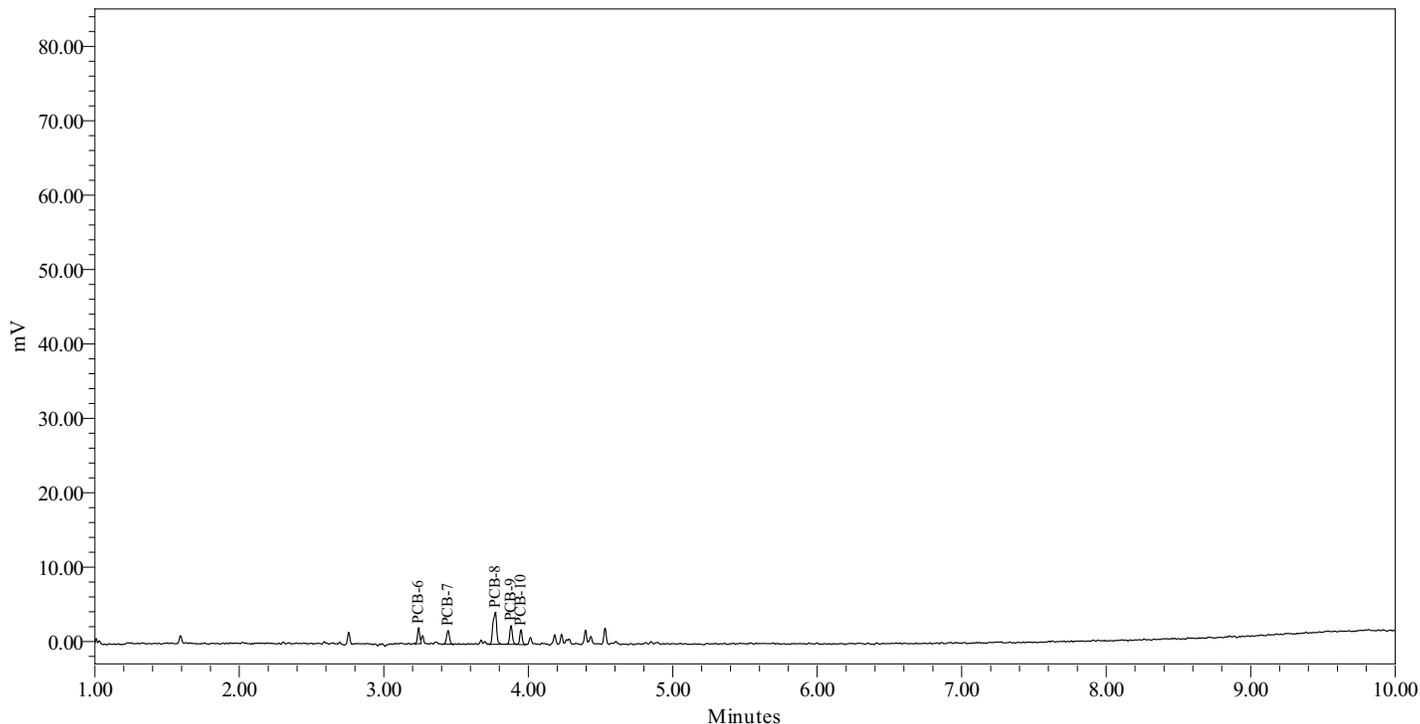
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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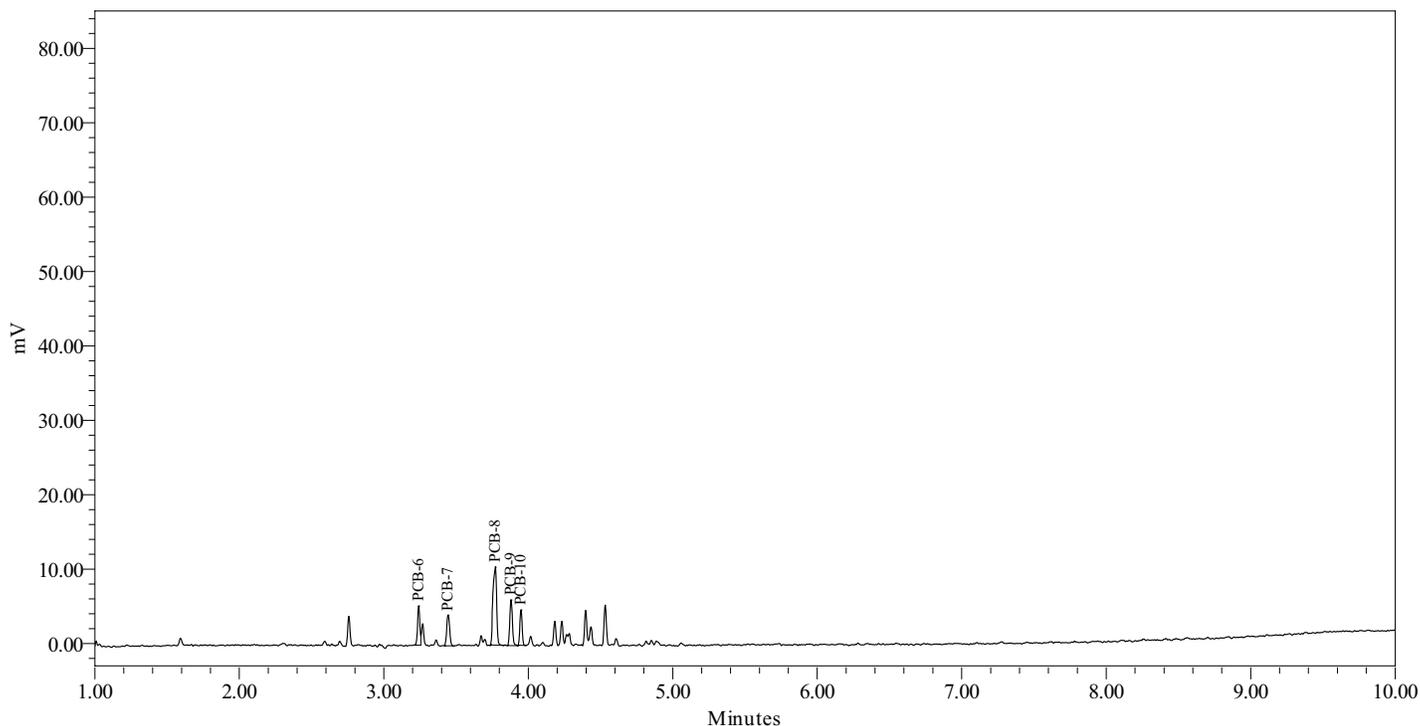
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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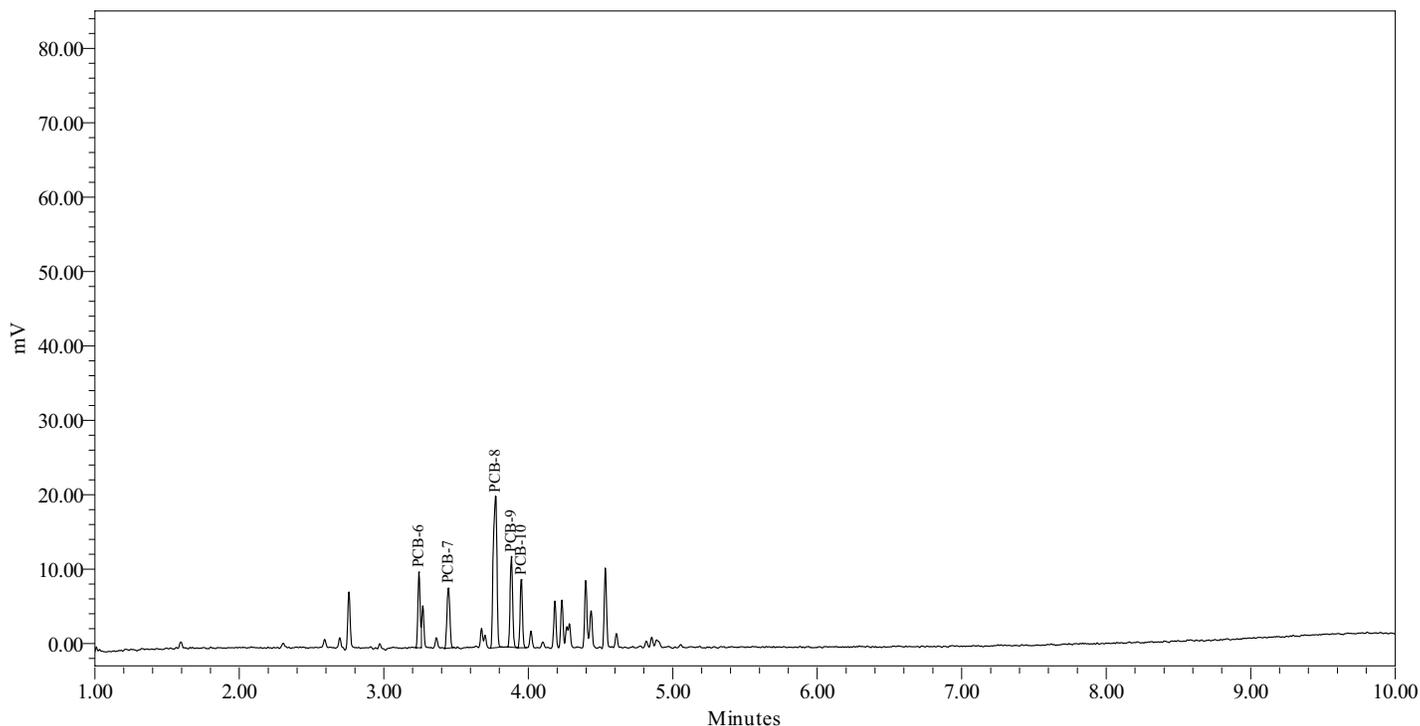
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

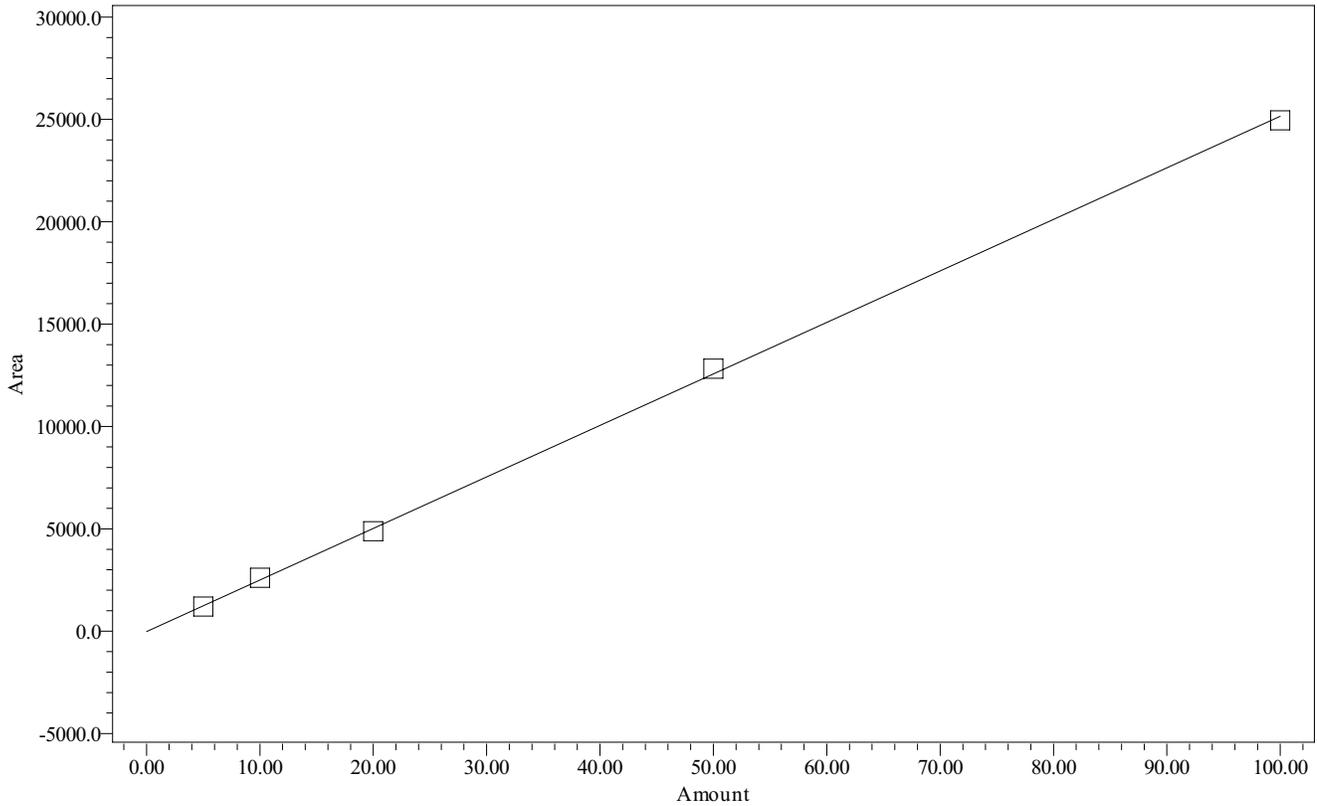
Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221                    | Coefficient constant A:                       | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

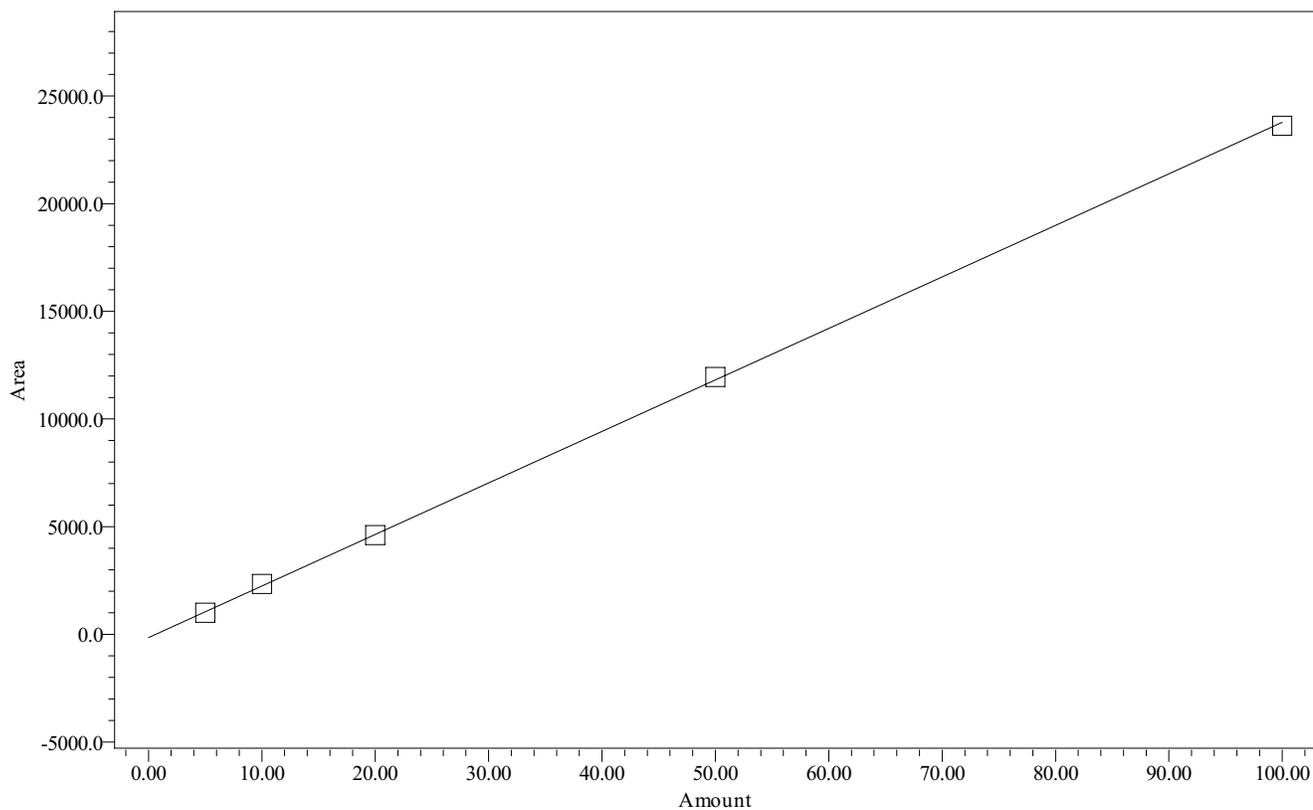
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

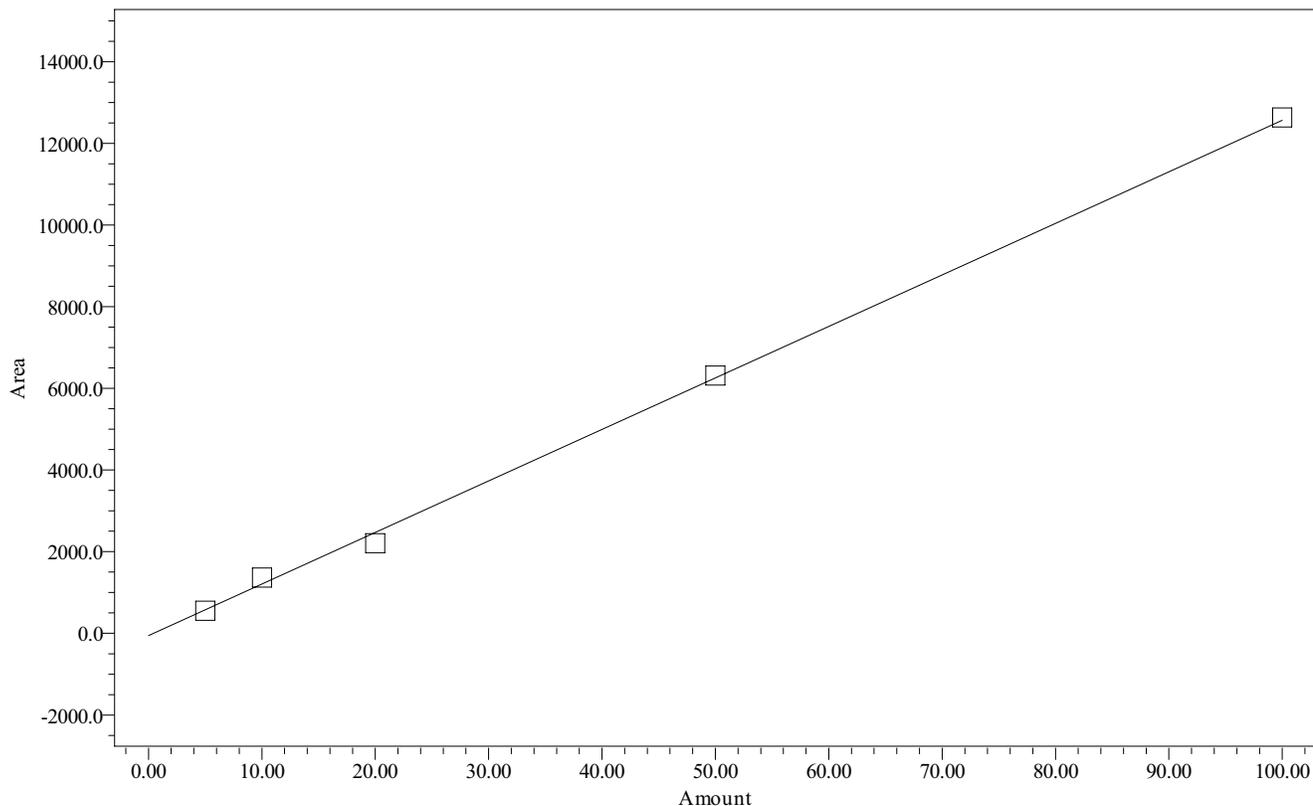
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00          | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00         | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00         | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00         | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00        | 12634    | 100.5       | 0.545       | No     | No     |

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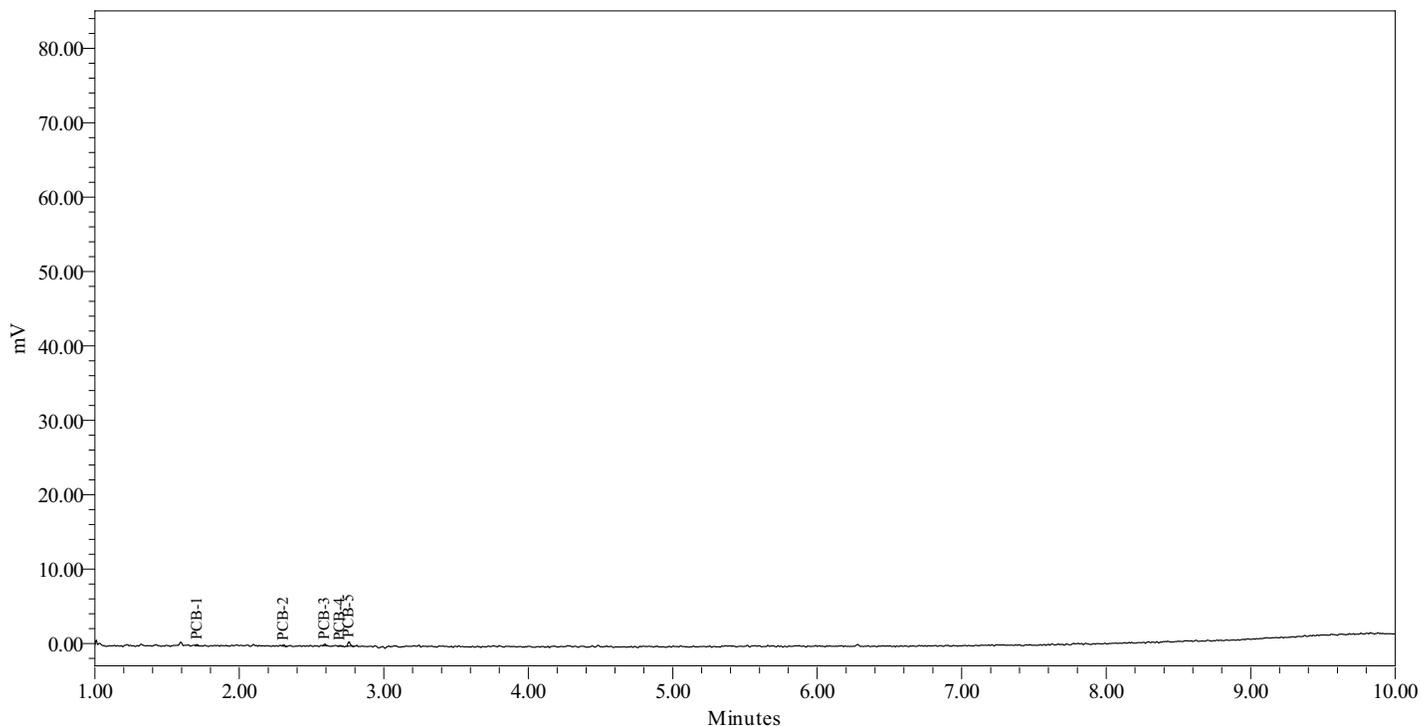
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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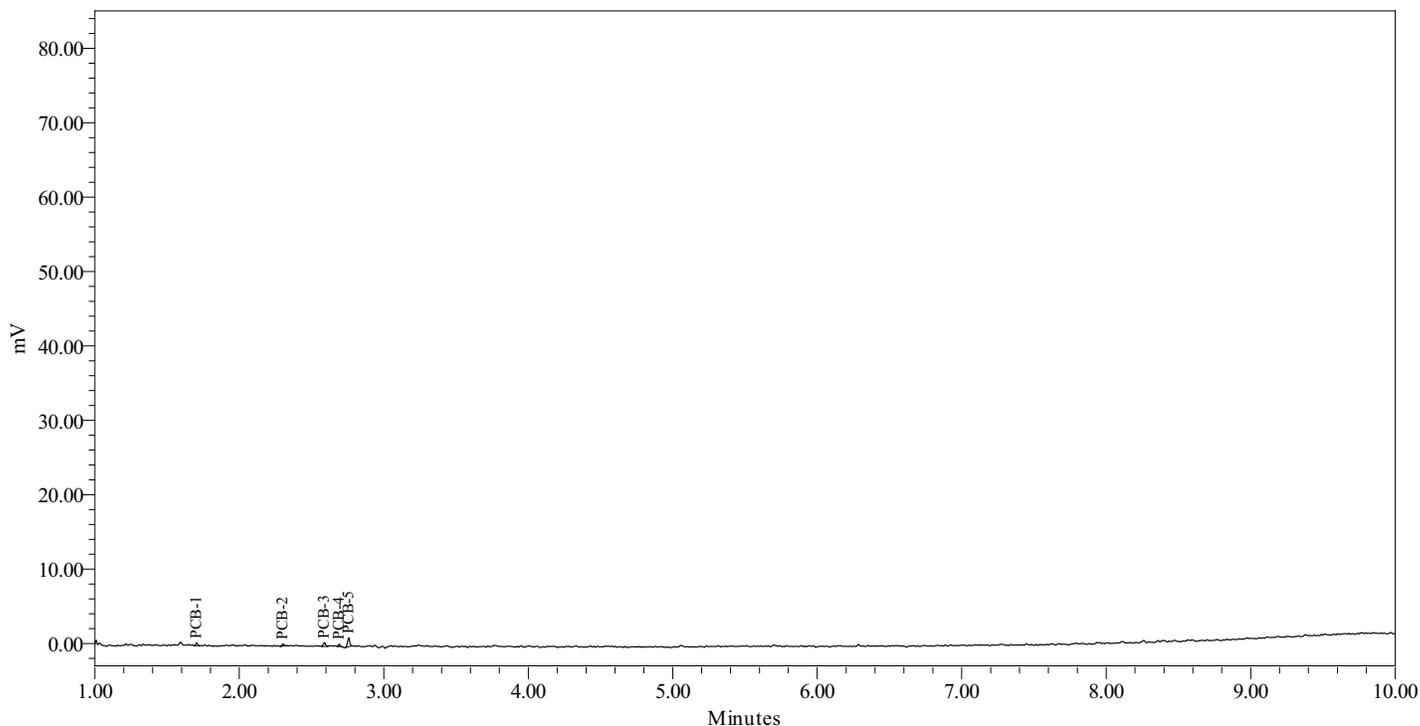
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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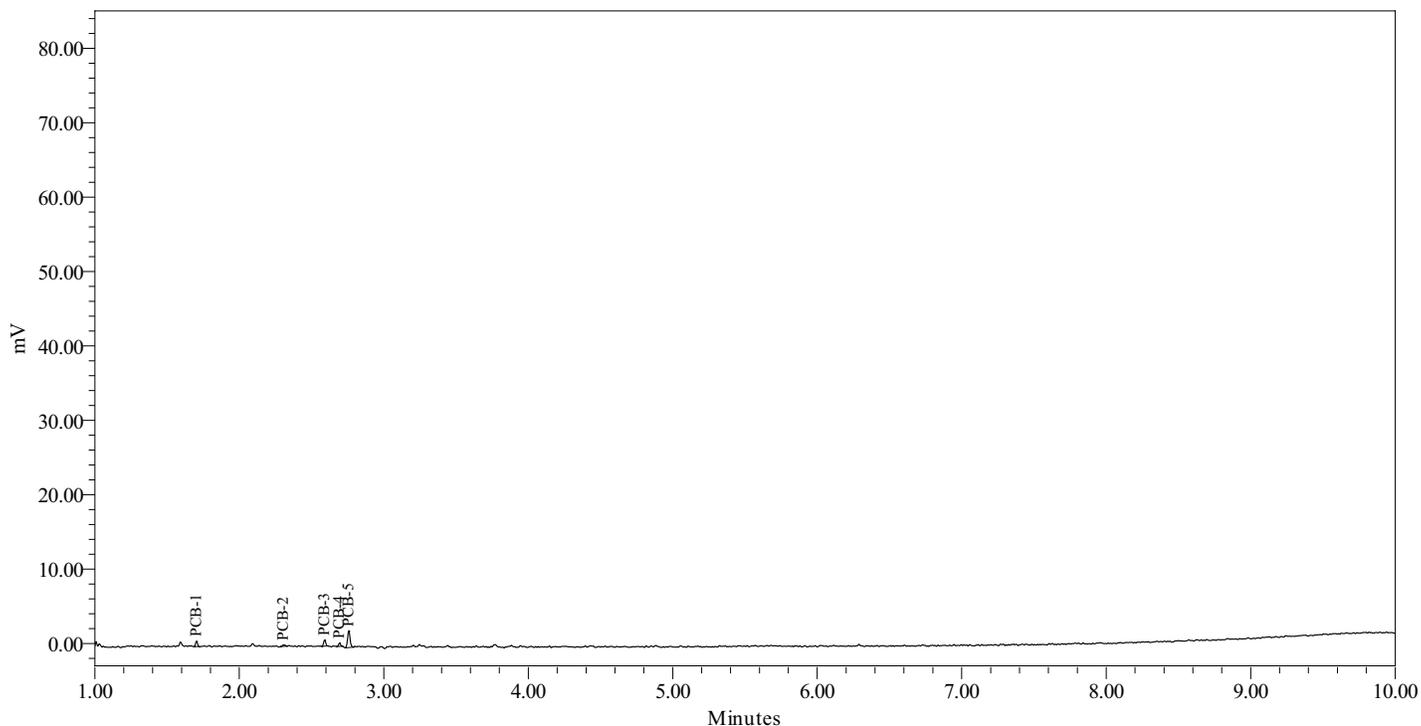
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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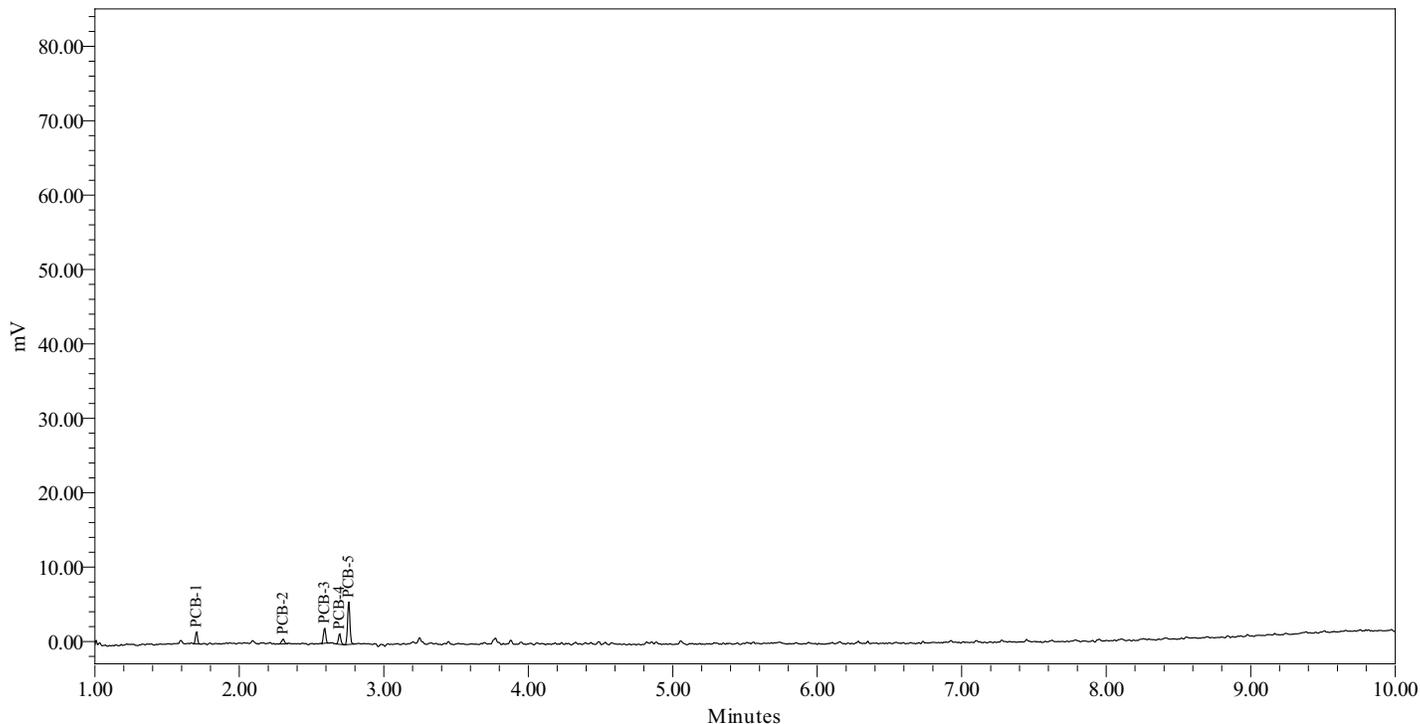
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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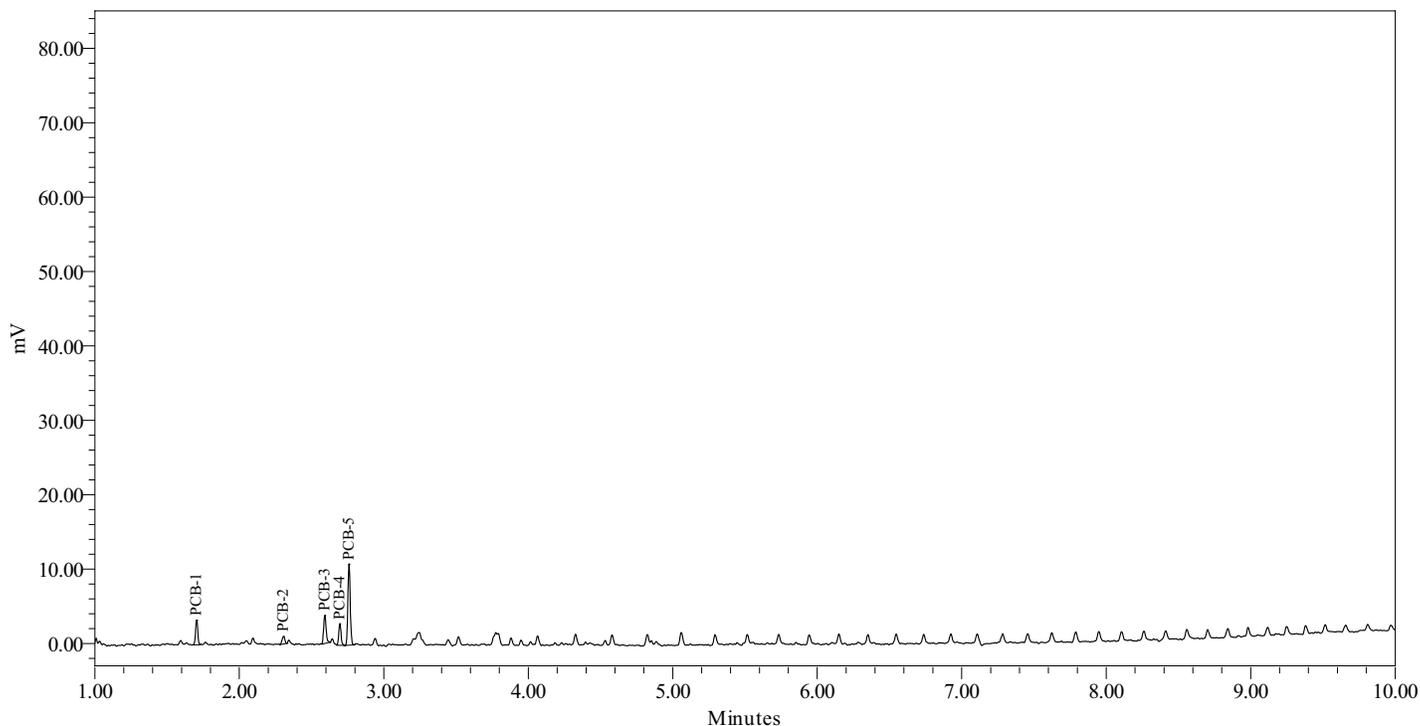
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.705          | bb               | 3557          |
| 2 | PCB-2     | 2.306          | bb               | 1337          |
| 3 | PCB-3     | 2.592          | bb               | 4569          |
| 4 | PCB-4     | 2.696          | bB               | 3171          |
| 5 | PCB-5     | 2.759          | Bb               | 12321         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A 1221     | 24955               | 100.000              |
| 2 | A 1221-2   | 23618               | 100.000              |
| 3 | A 1221-5   | 12634               | 100.000              |
| 4 | A 1232     | 12321               |                      |
| 5 | A 1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

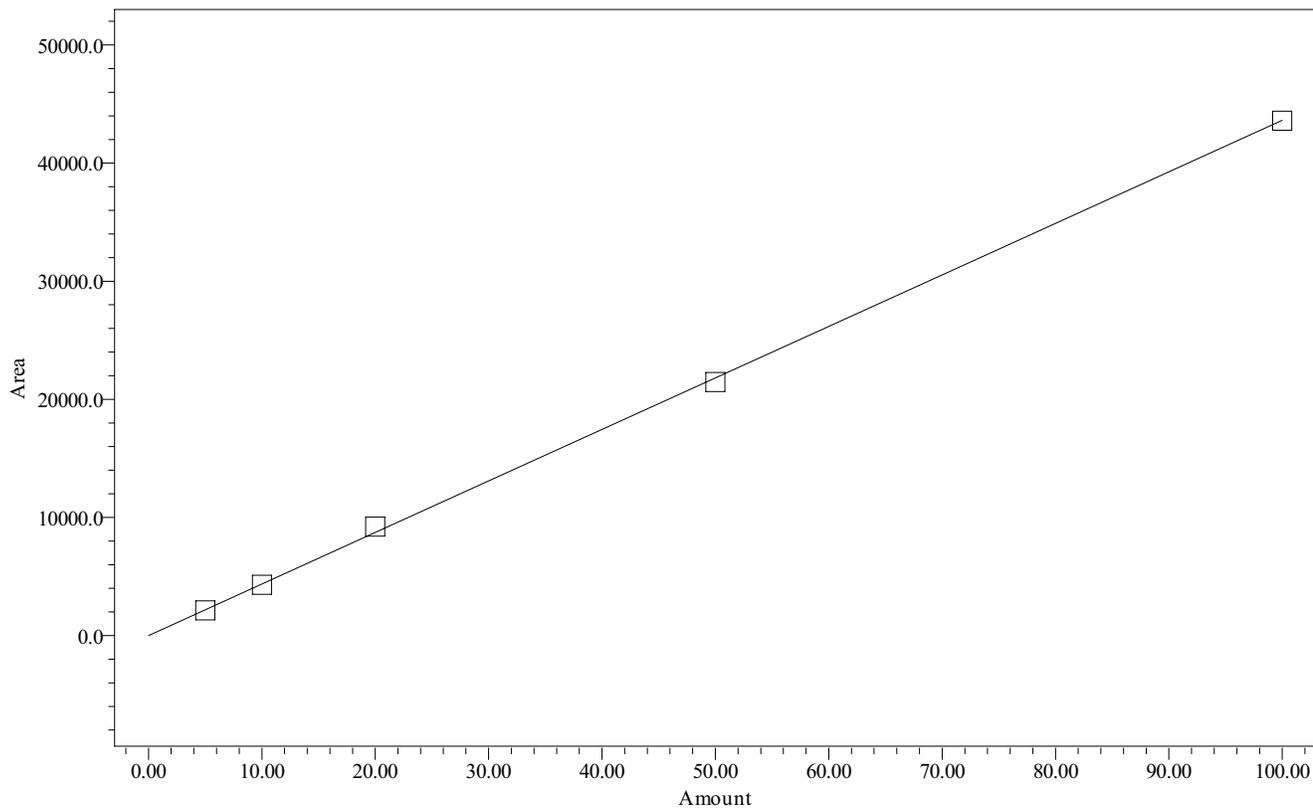
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

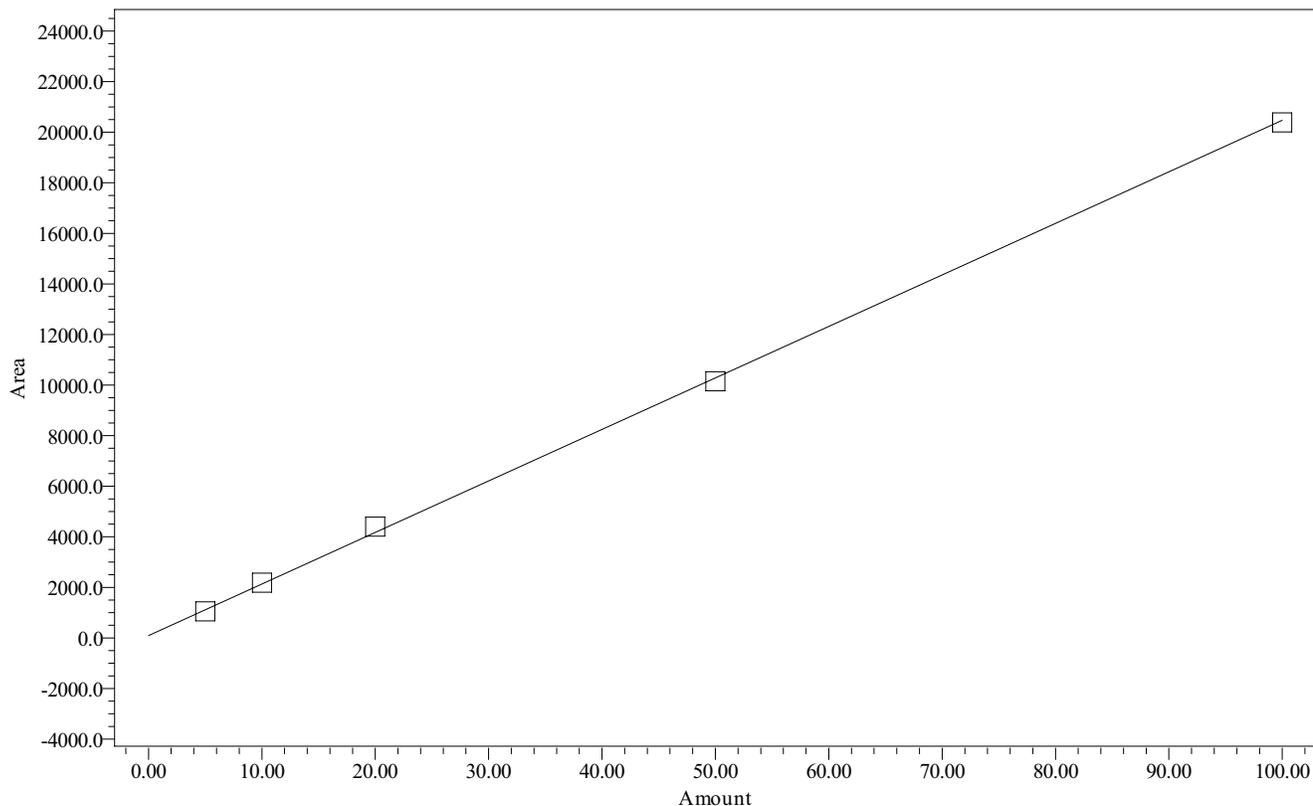
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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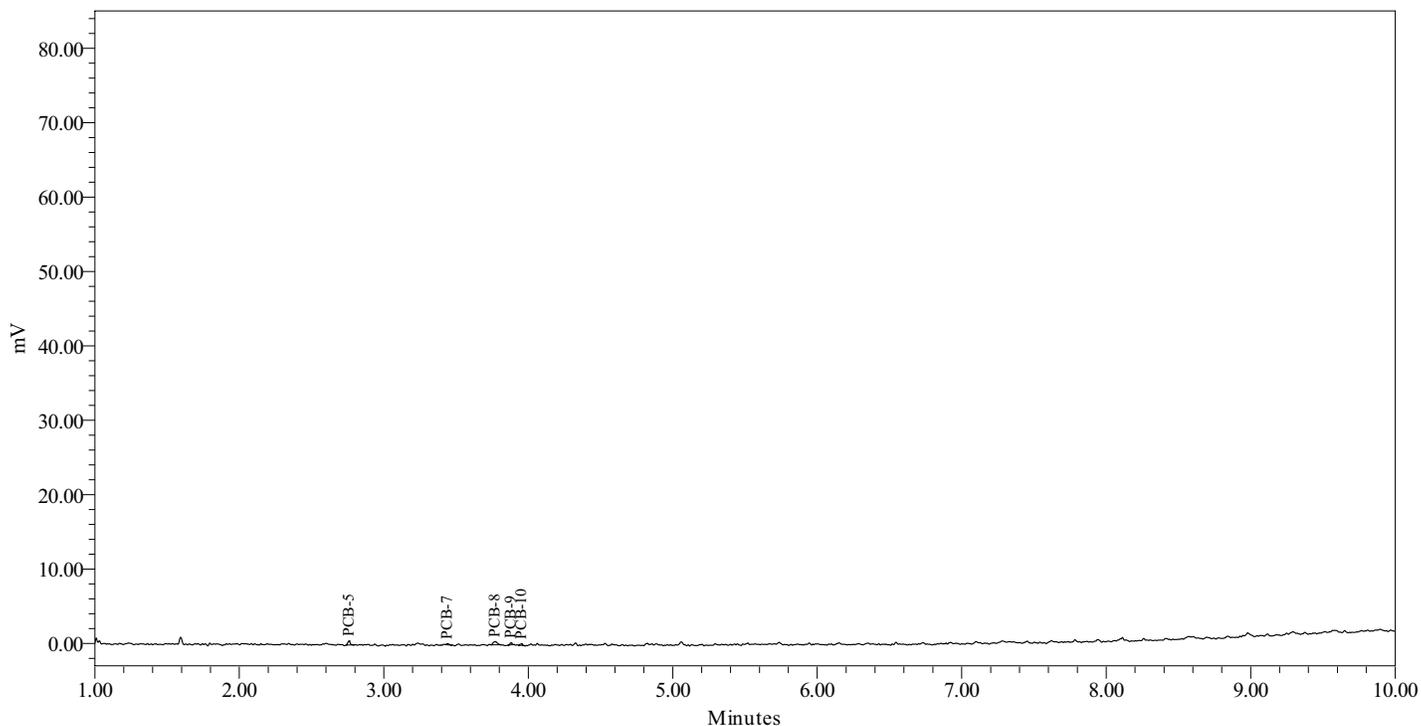
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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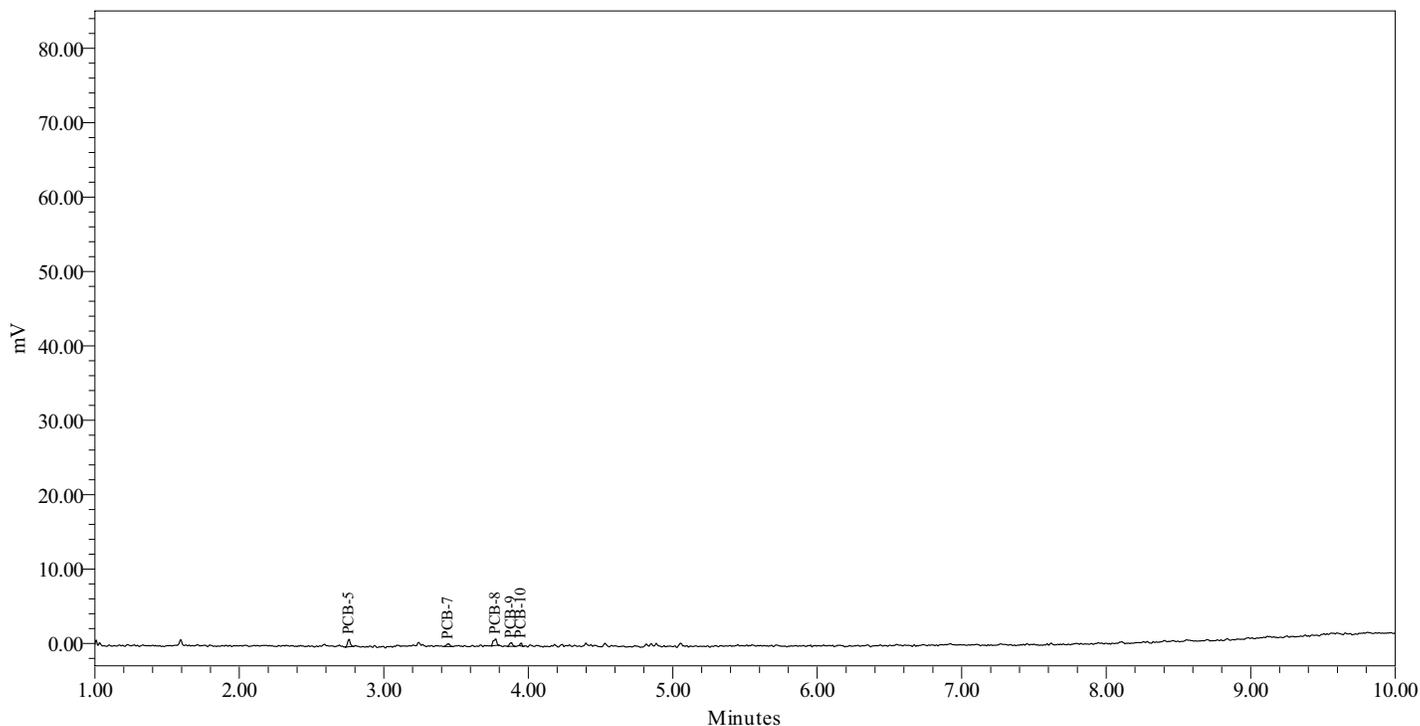
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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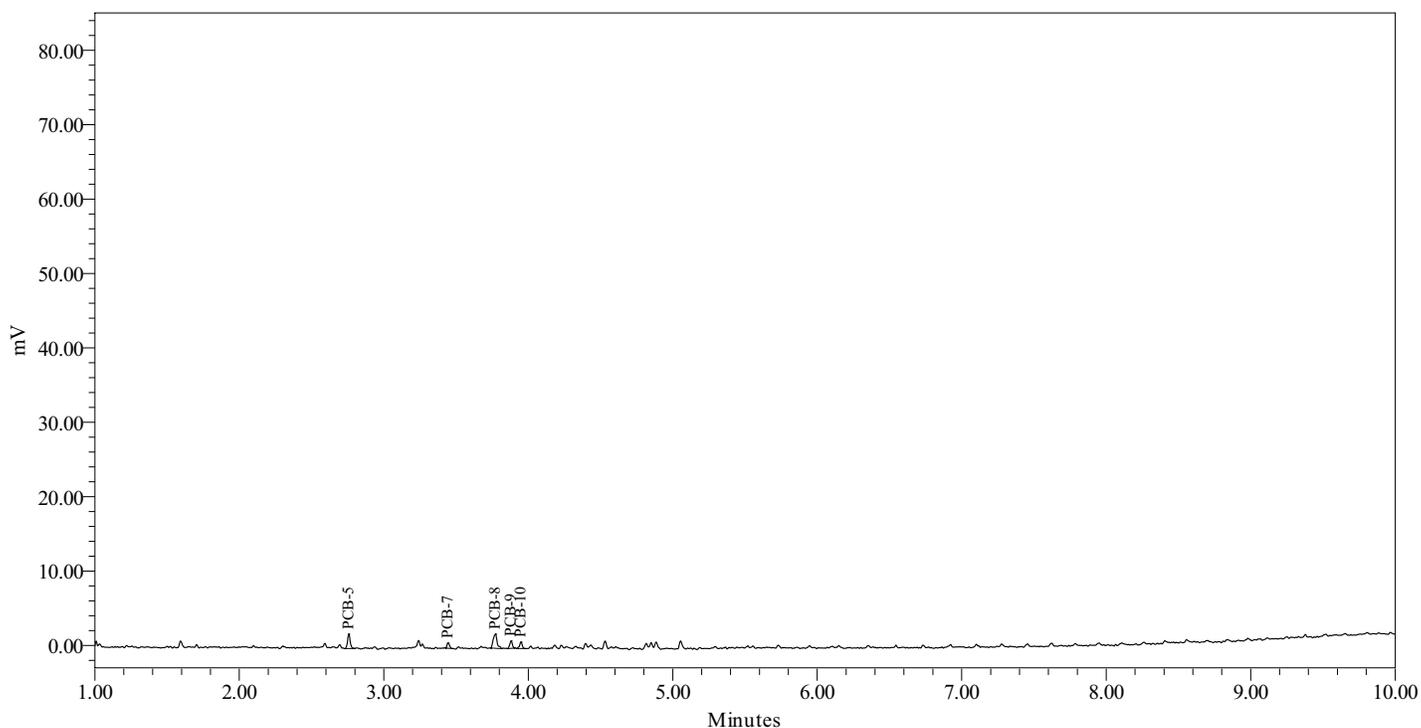
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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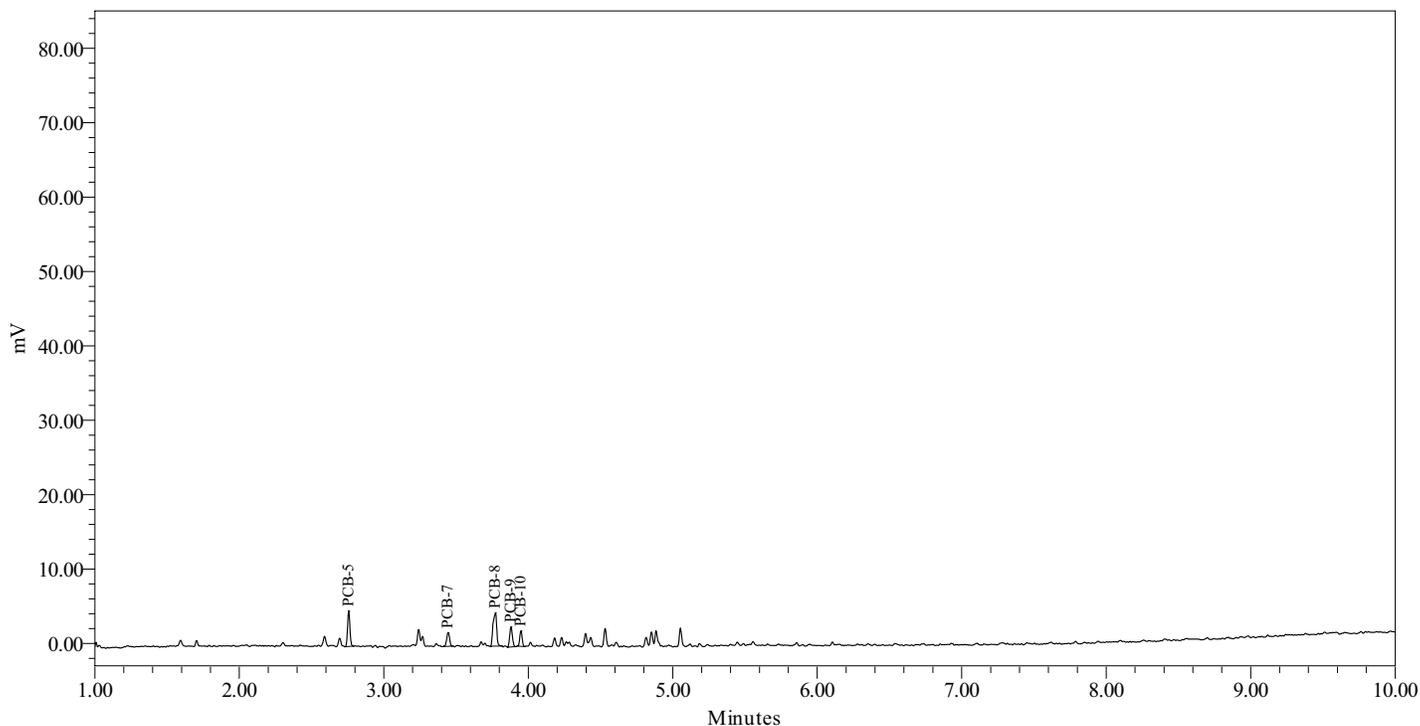
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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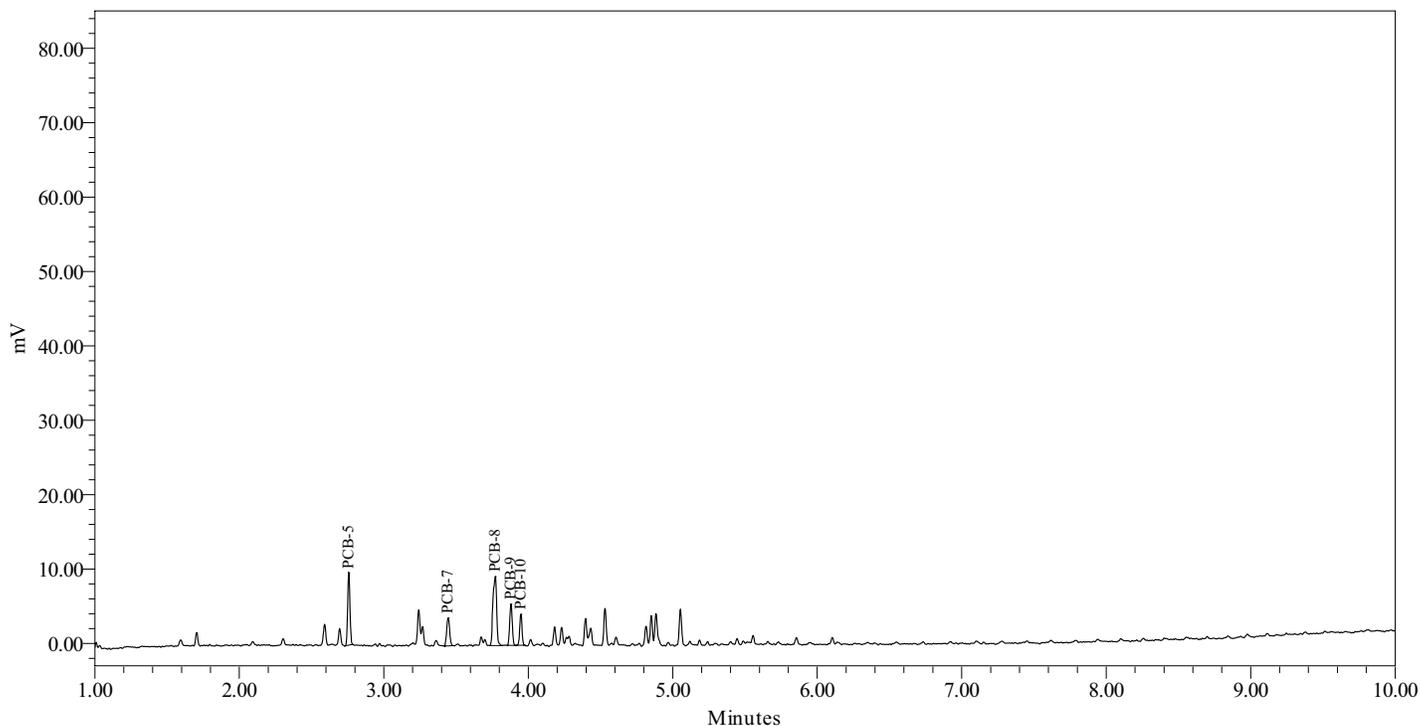
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table  
Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

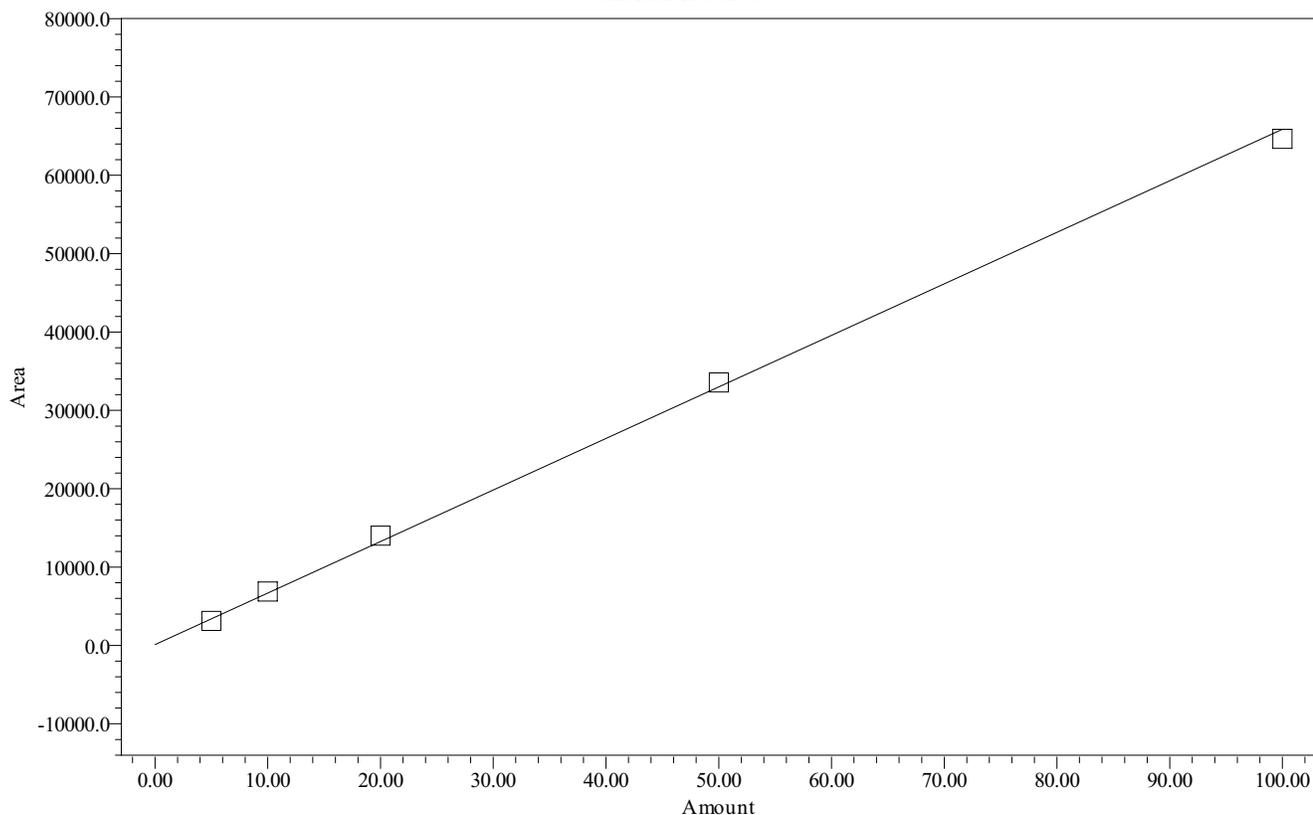
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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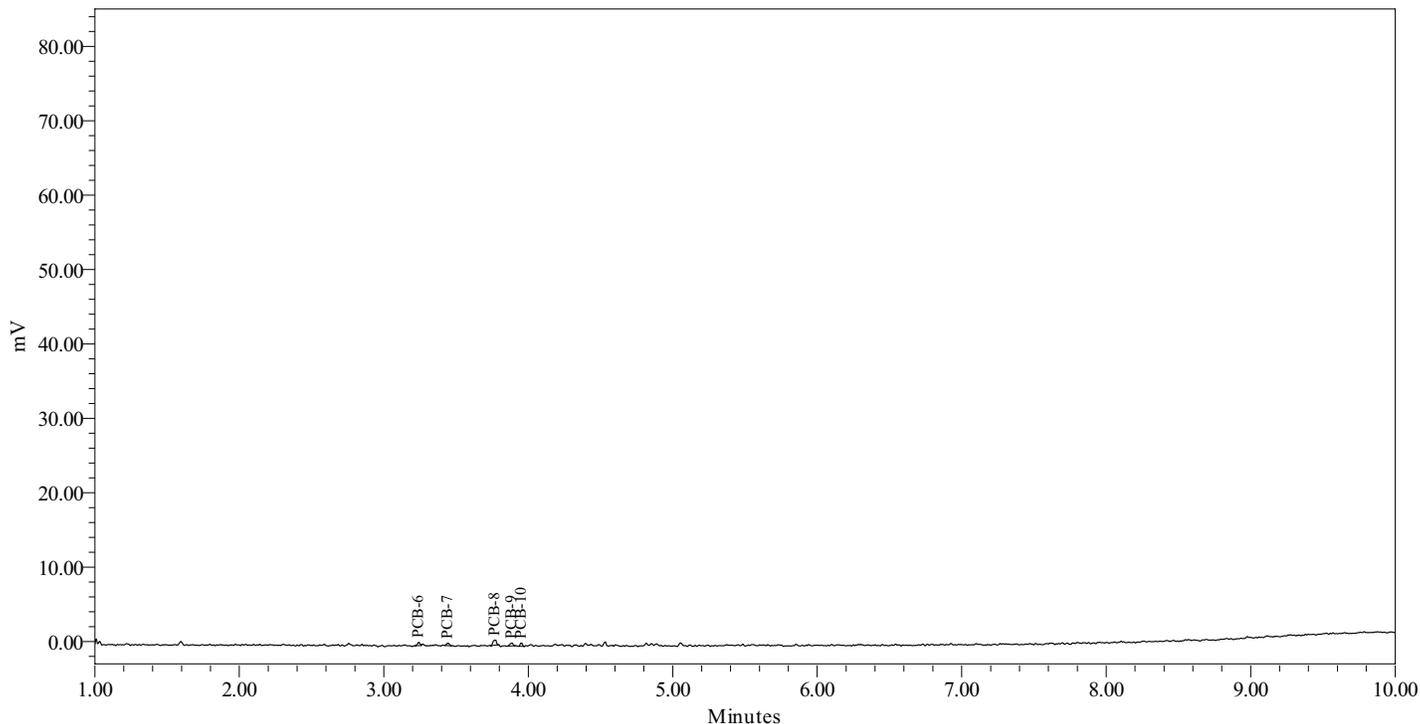
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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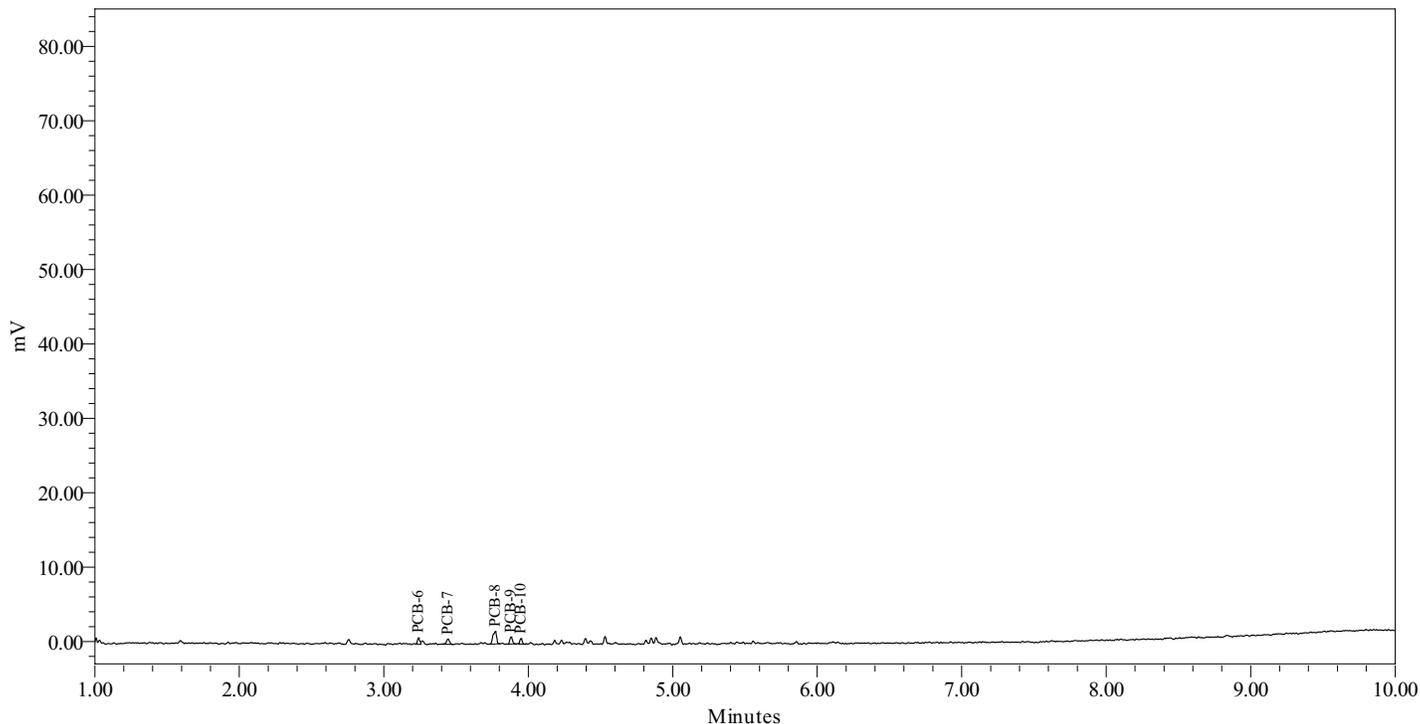
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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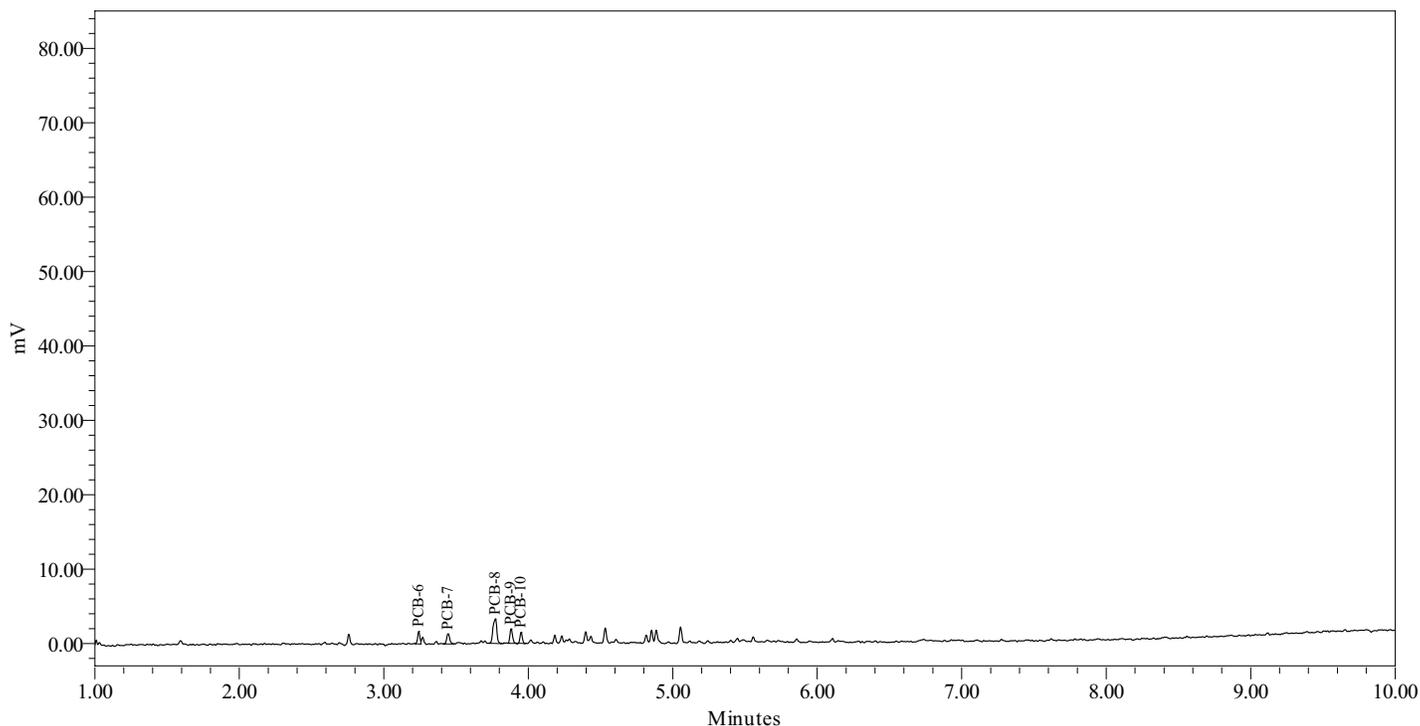
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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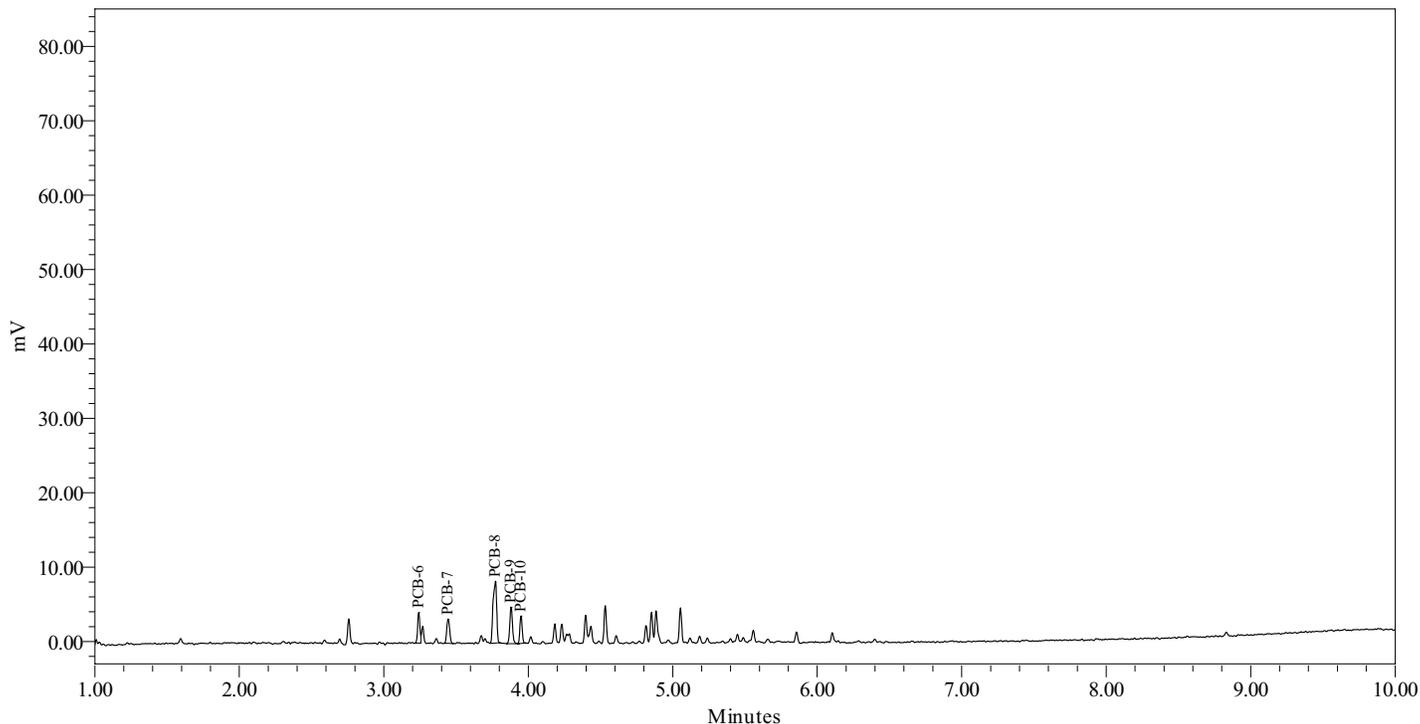
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 4482          |
| 2 PCB-7   | 3.445          | bb               | 4543          |
| 3 PCB-8   | 3.772          | bb               | 14379         |
| 4 PCB-9   | 3.881          | bB               | 6189          |
| 5 PCB-10  | 3.950          | Bb               | 3965          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 33559               |                      |
| 2 A1232     | 29076               |                      |
| 3 A1232-8/9 | 8508                |                      |
| 4 A1242     | 33559               | 50.000               |



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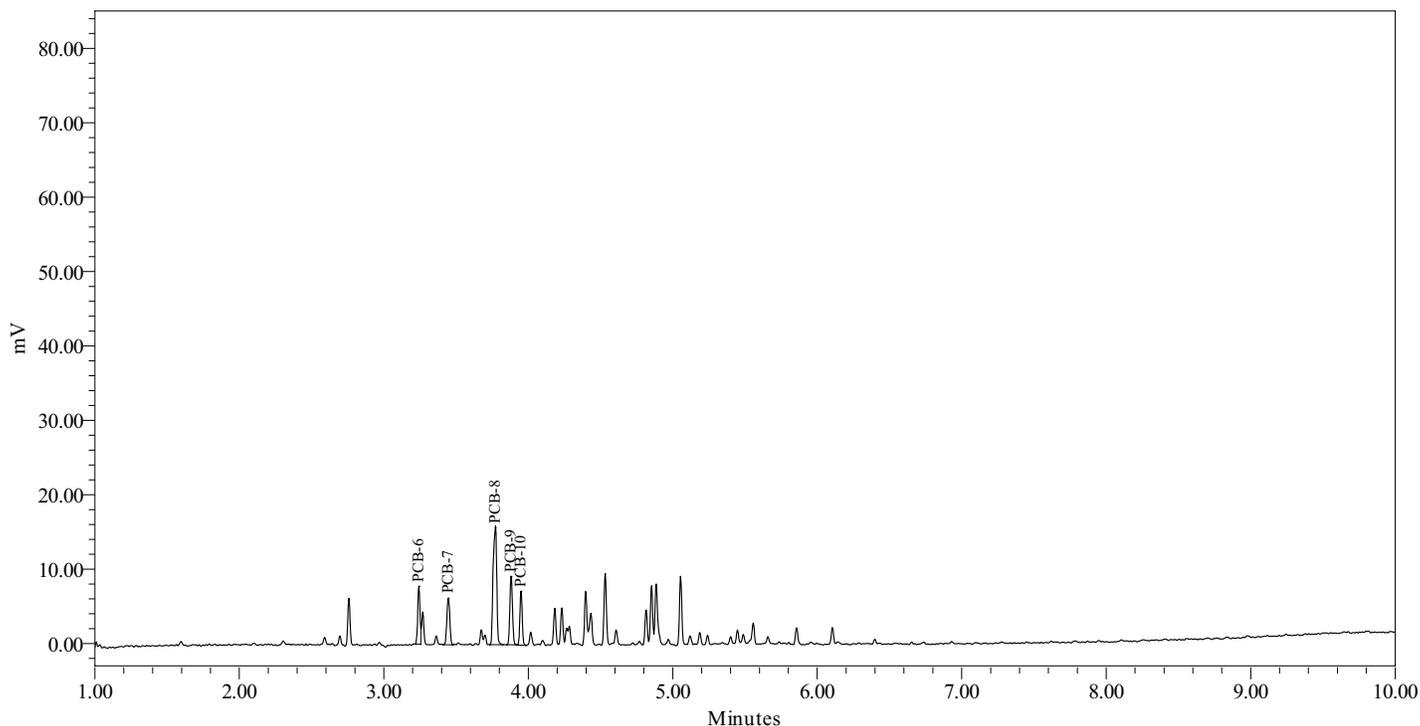
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

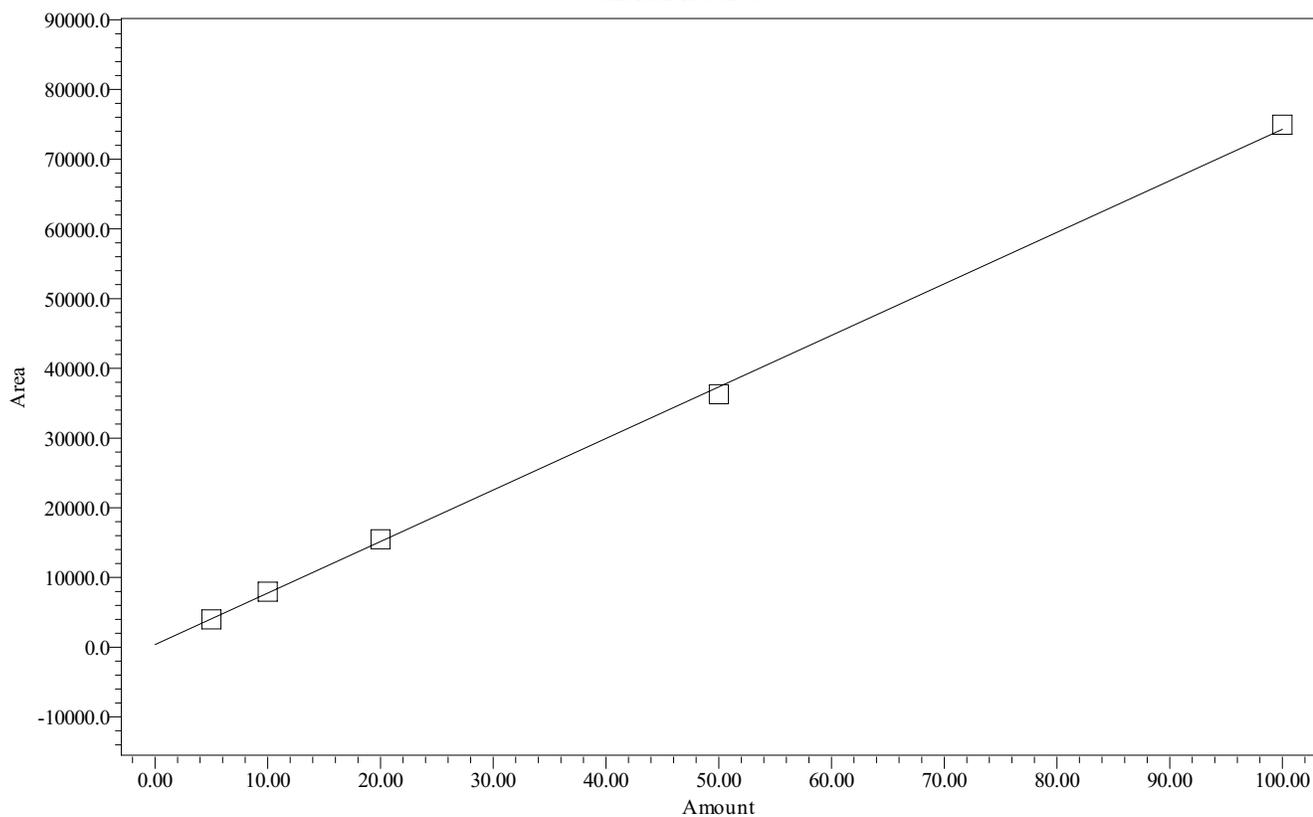
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

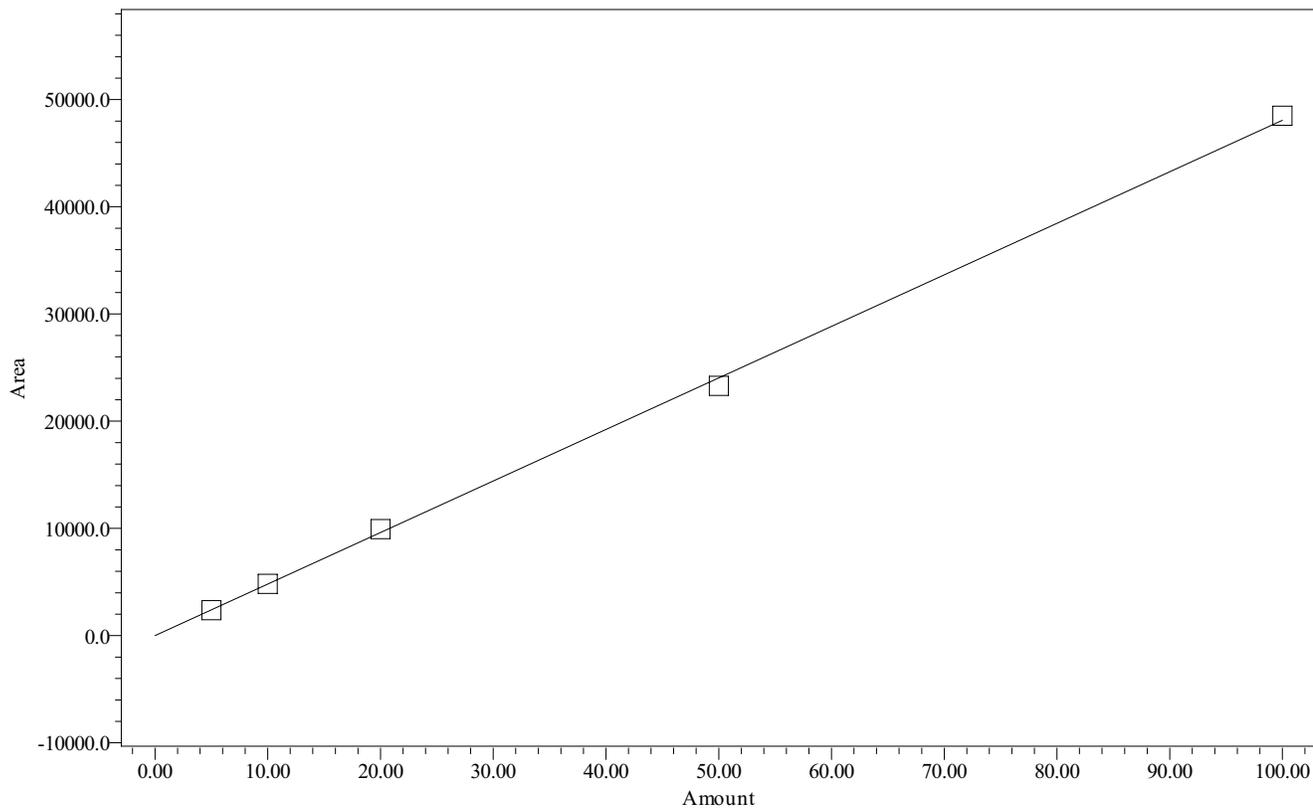
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

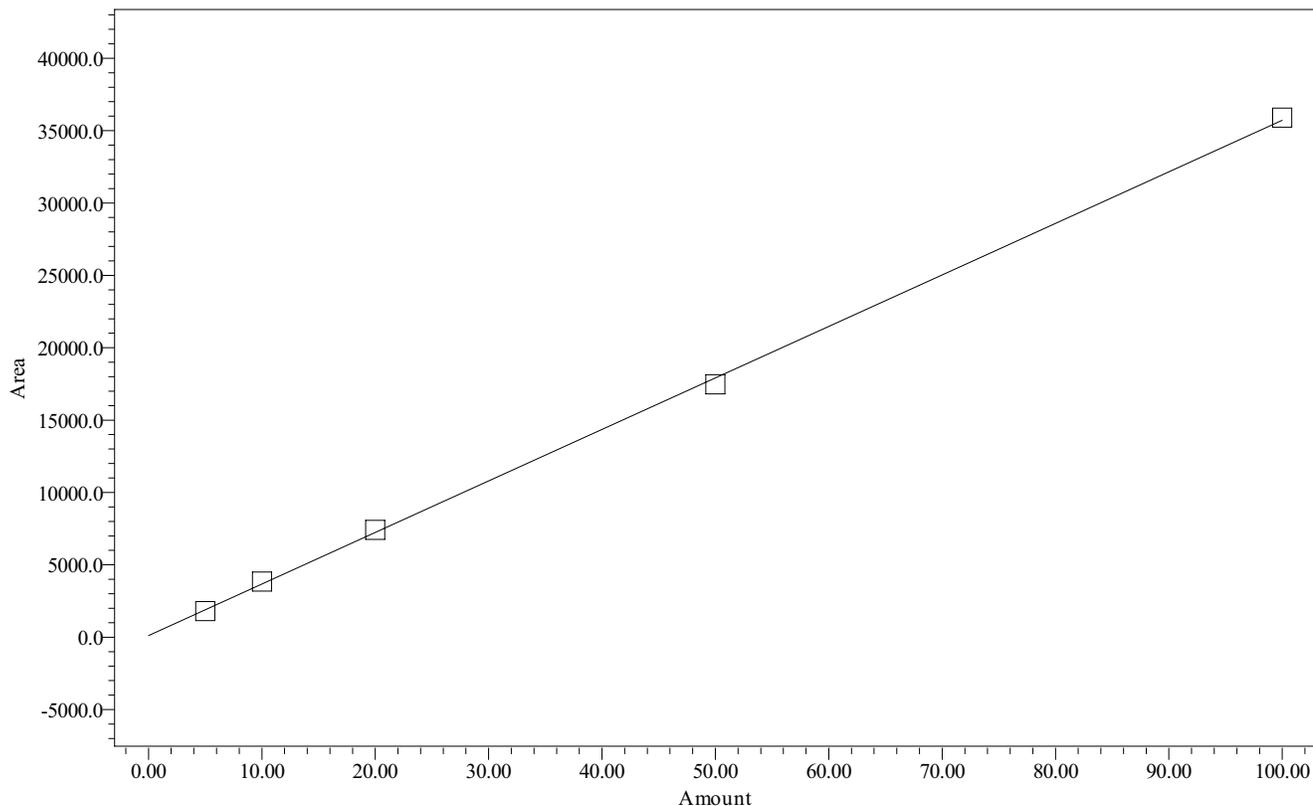
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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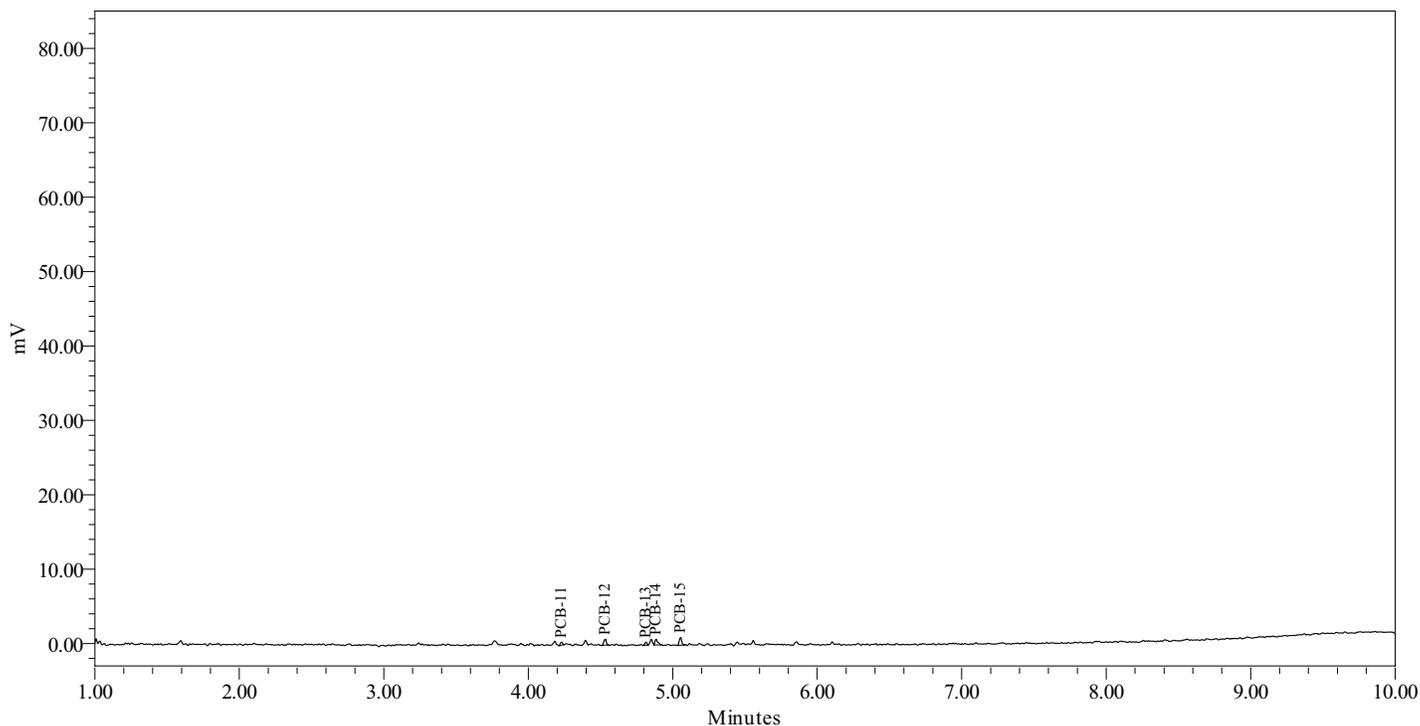
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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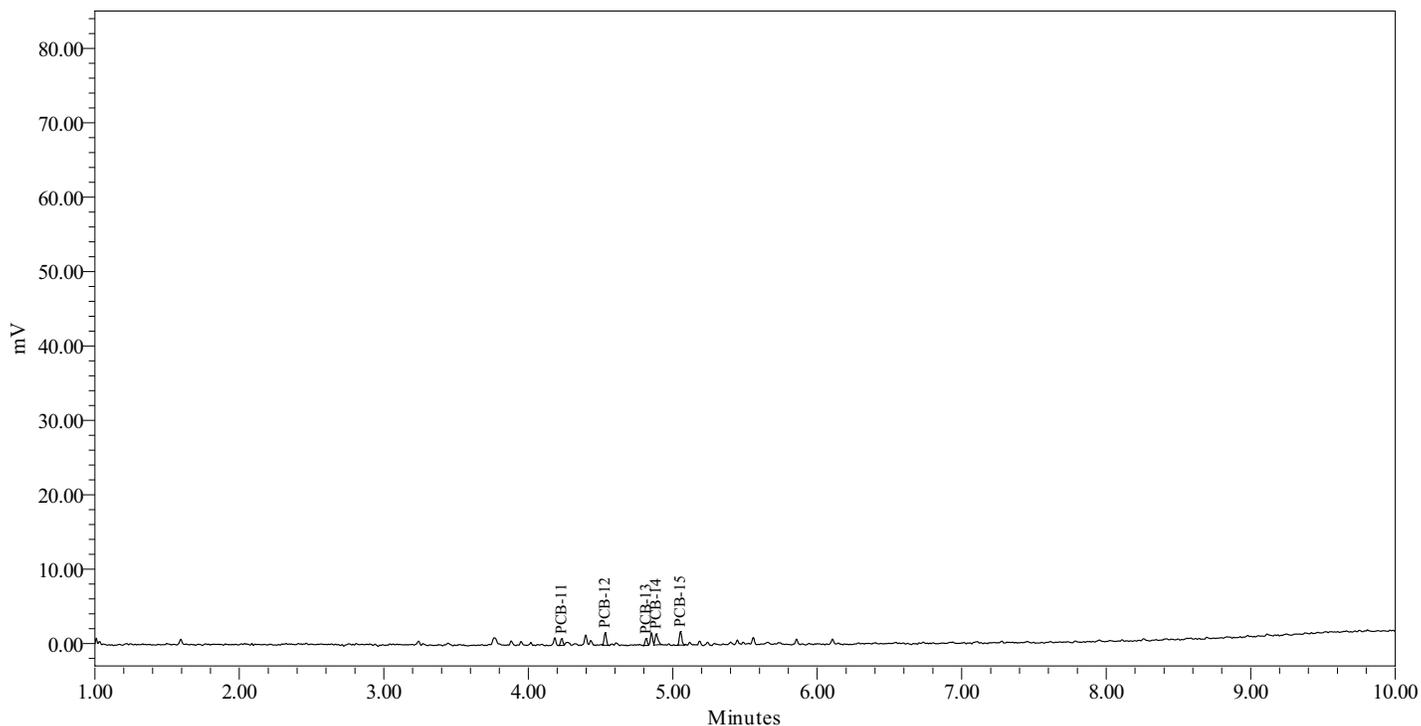
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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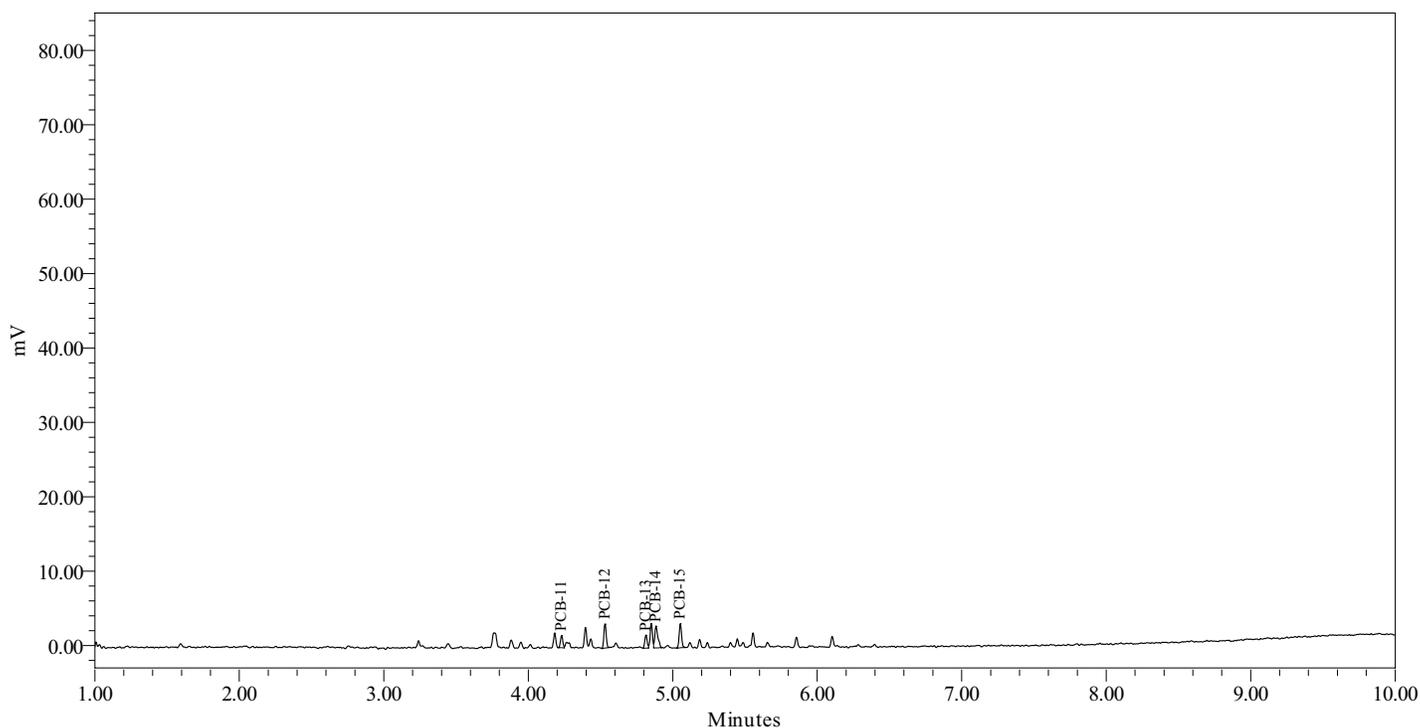
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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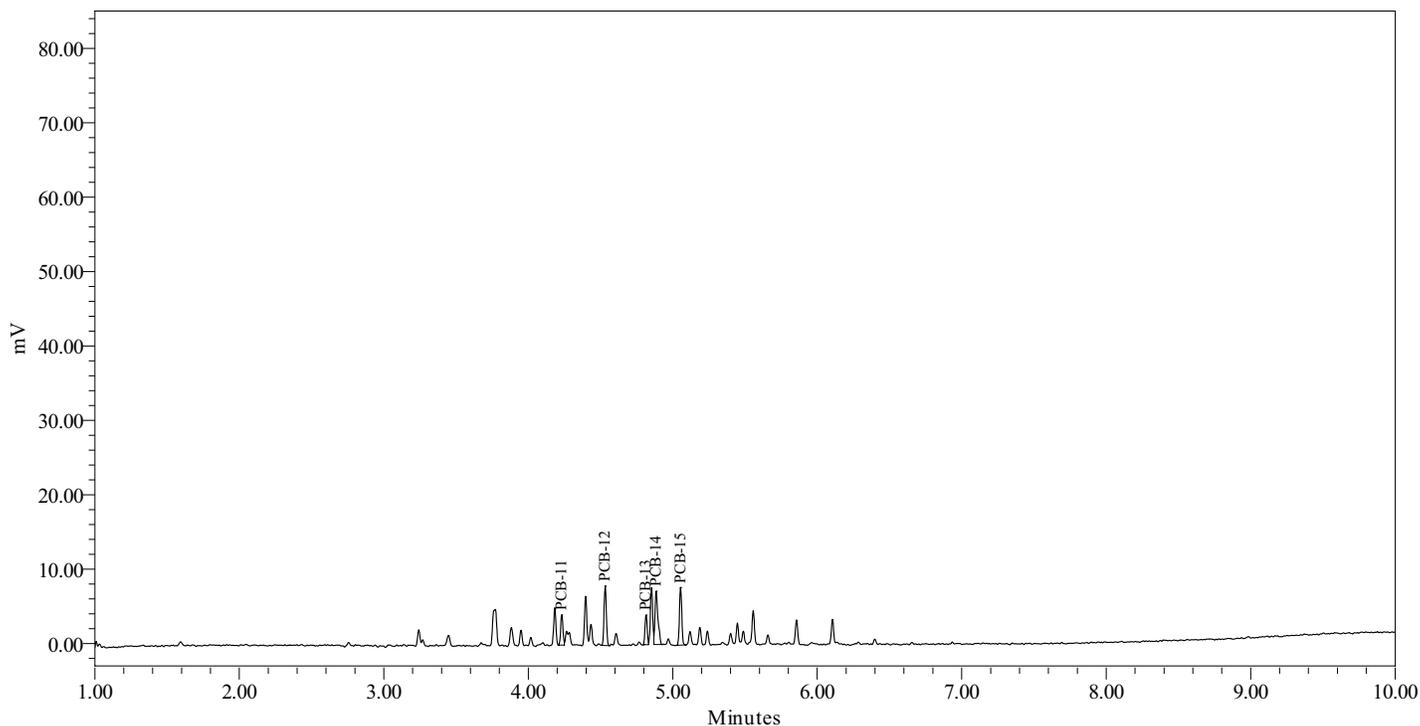
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 4395          |
| 2 | PCB-12    | 4.533          | bb               | 8829          |
| 3 | PCB-13    | 4.815          | bV               | 4243          |
| 4 | PCB-14    | 4.885          | Vb               | 10227         |
| 5 | PCB-15    | 5.054          | bb               | 8574          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 36270               | 50.000               |
| 2 | A1248-11/15 | 23300               | 50.000               |
| 3 | A1248-14/15 | 17468               | 50.000               |



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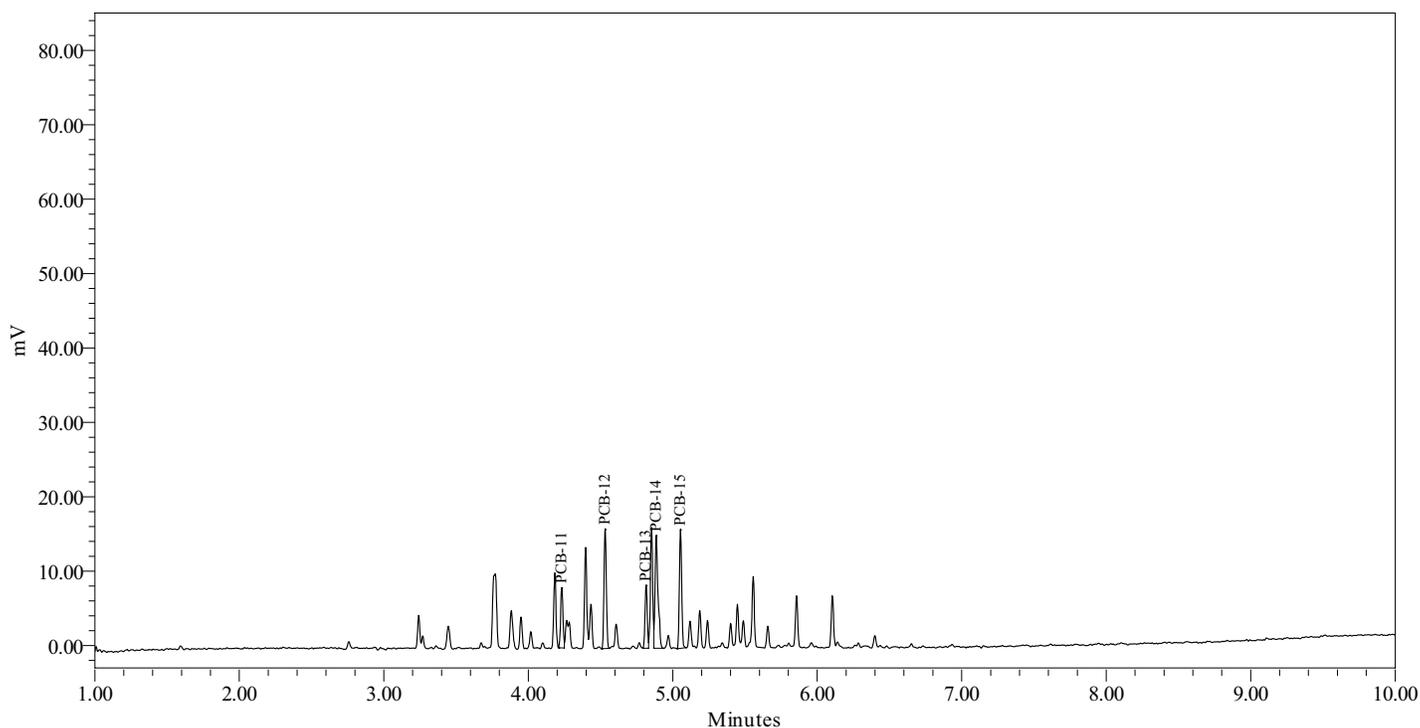
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 8932          |
| 2 PCB-12  | 4.532          | bb               | 17877         |
| 3 PCB-13  | 4.816          | bV               | 9092          |
| 4 PCB-14  | 4.886          | Vb               | 21535         |
| 5 PCB-15  | 5.054          | bb               | 17510         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 74946               | 100.000              |
| 2 A1248-11/15 | 48504               | 100.000              |
| 3 A1248-14/15 | 35901               | 100.000              |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

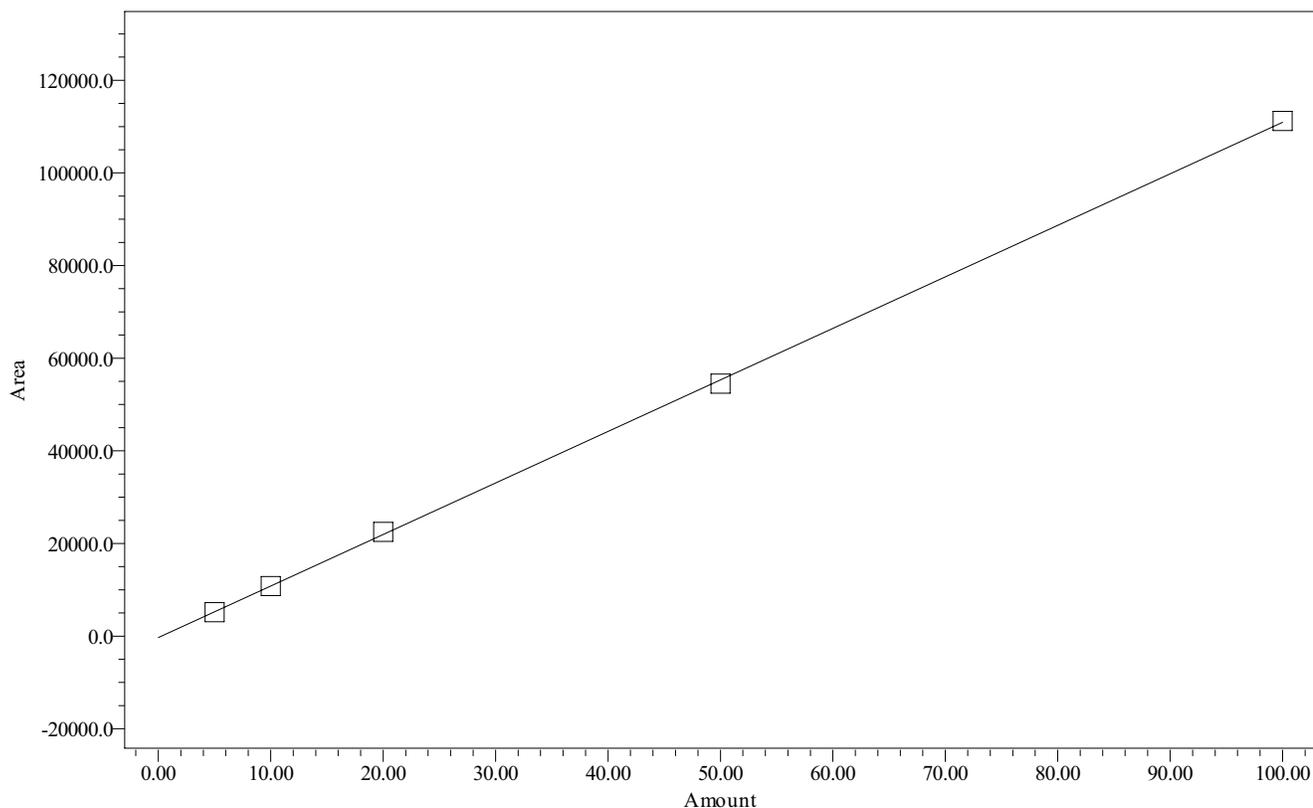
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

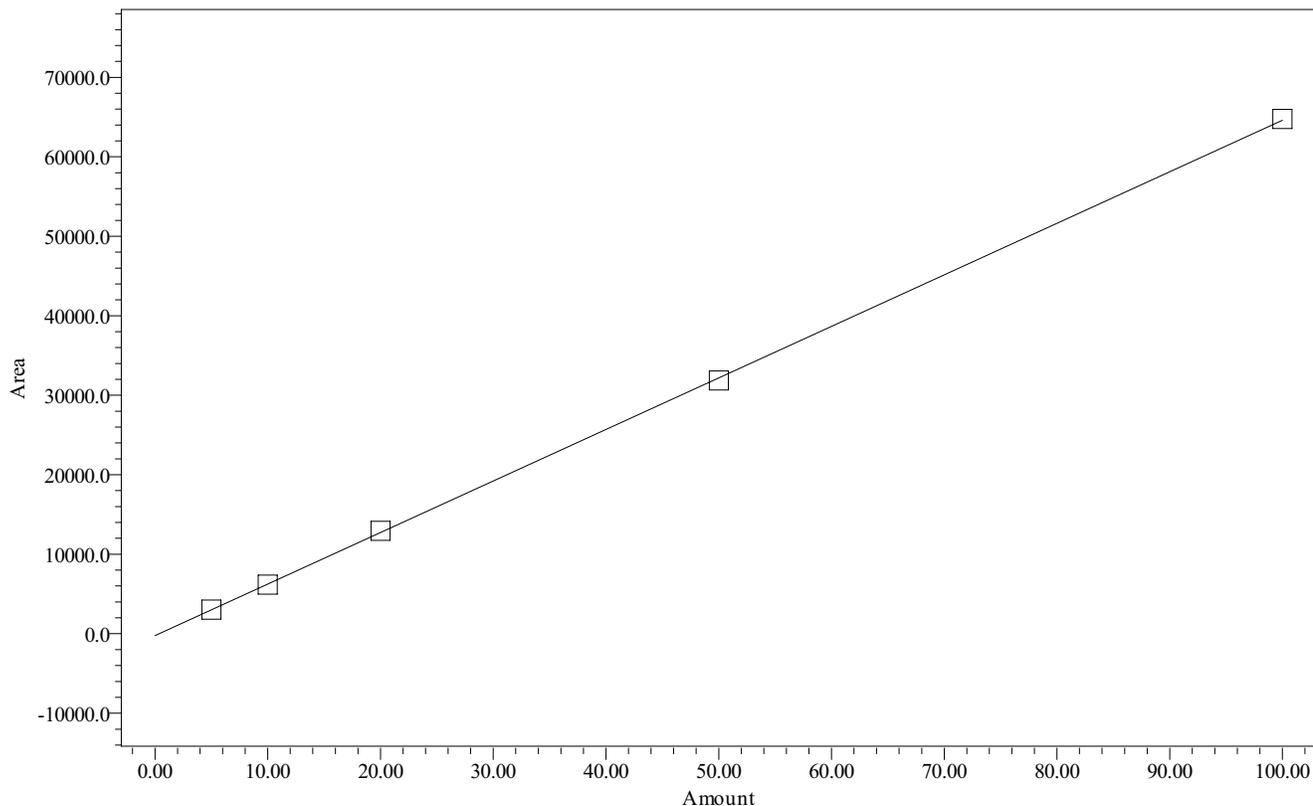
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

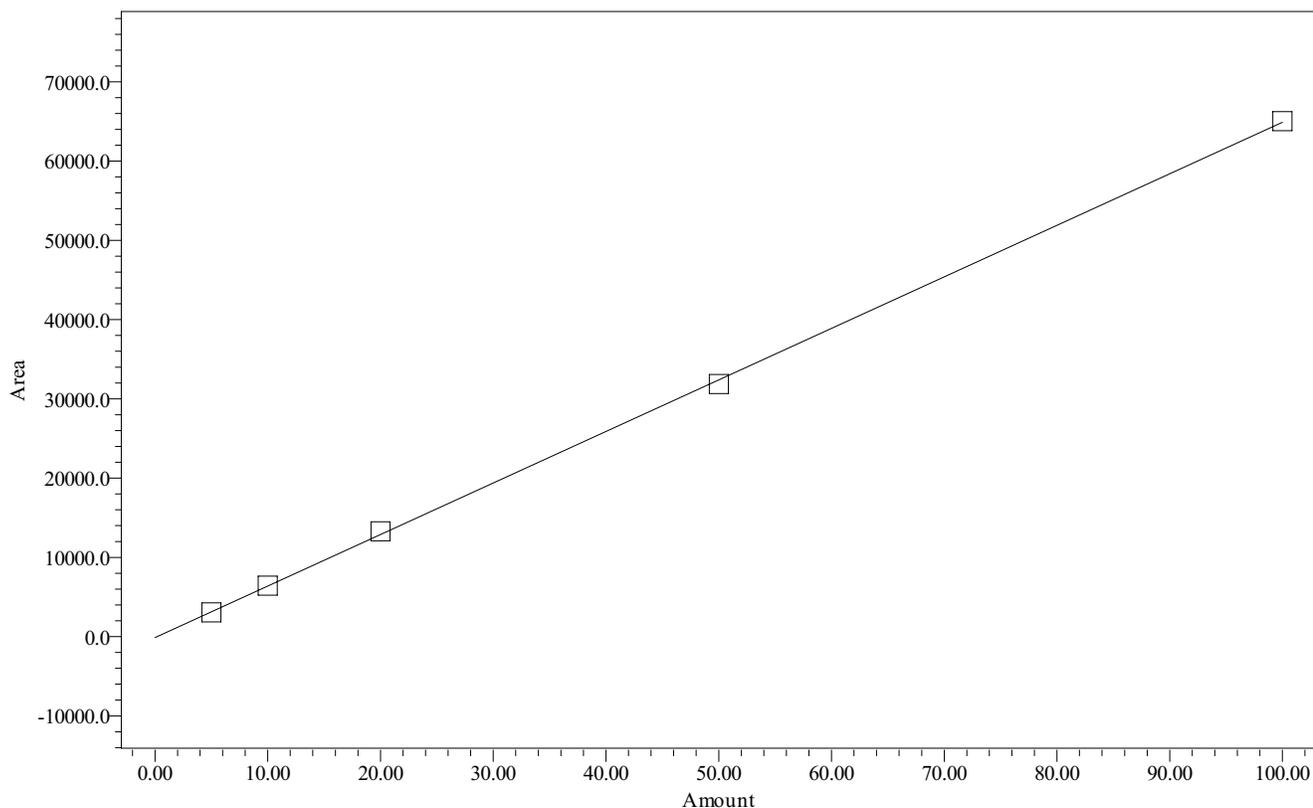
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00          | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00         | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00         | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00         | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00        | 65042    | 100.2       | 0.231       | No     | No     |

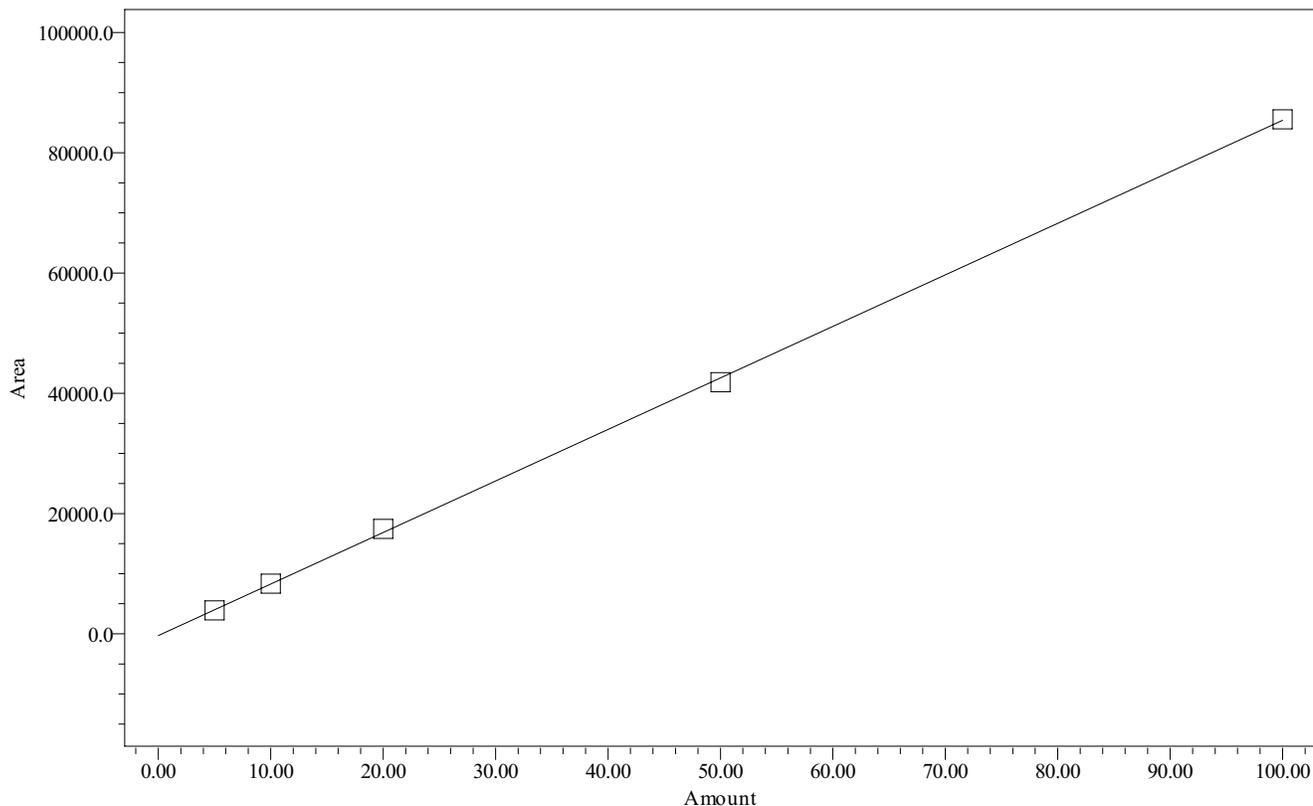
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



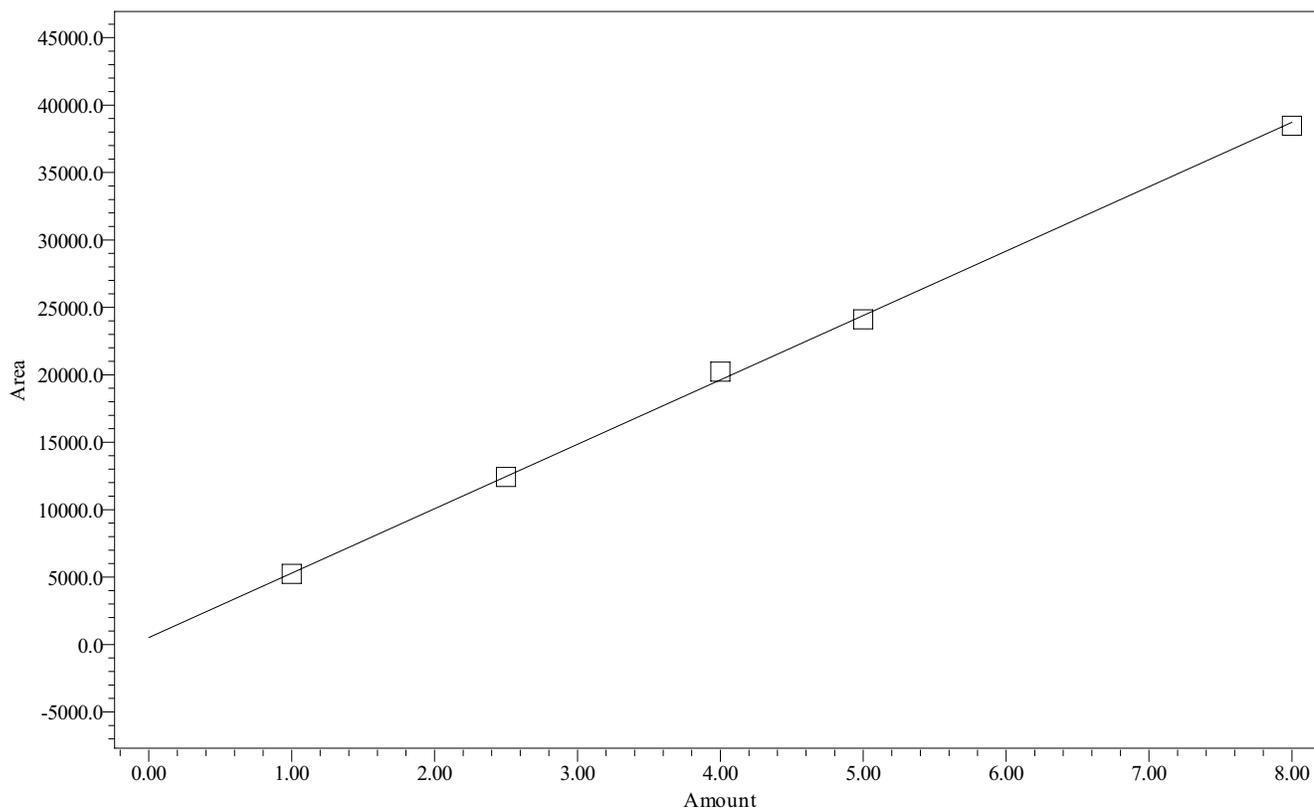
Point Table  
Peak: A1254-20

|   | Name      | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00          | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00         | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00         | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00         | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00        | 85575    | 100.2       | 0.208       | No     | No     |

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|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | TCMX                     | Coefficient constant A:           | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

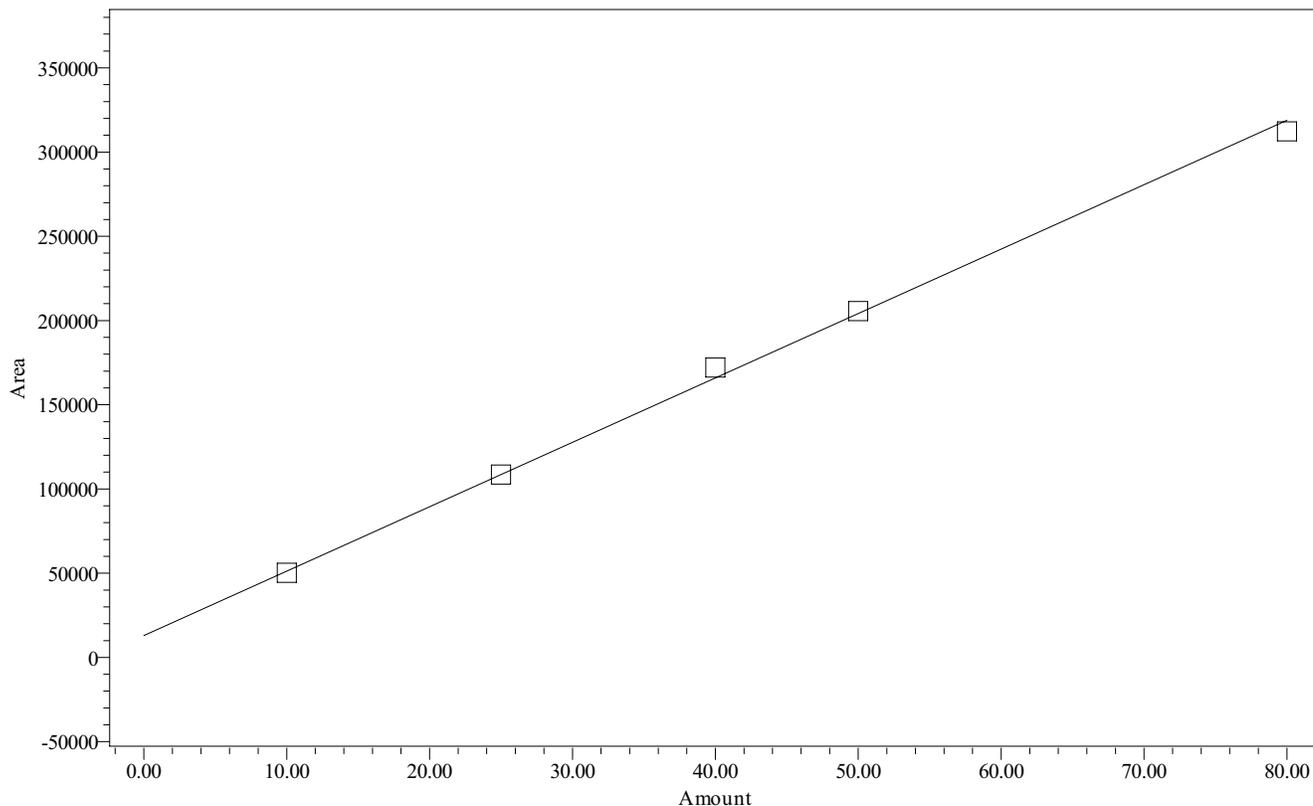
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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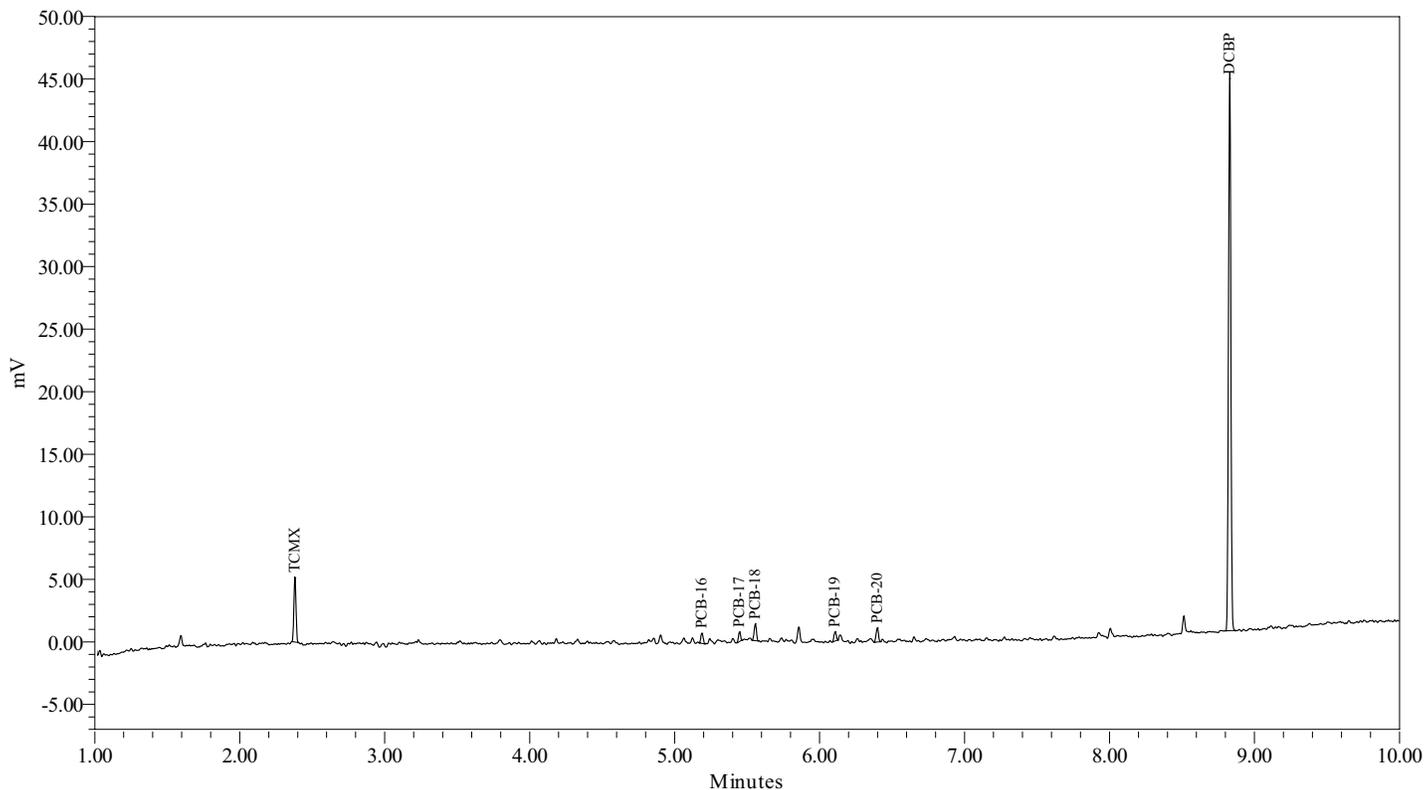
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|---|-----------|----------------|------------------|---------------|----------------------|
| 1 | TCMX      | 2.381          | bb               | 5240          | 1.000                |
| 2 | PCB-16    | 5.188          | bb               | 904           |                      |
| 3 | PCB-17    | 5.448          | bb               | 724           |                      |
| 4 | PCB-18    | 5.557          | bb               | 1427          |                      |
| 5 | PCB-19    | 6.107          | bb               | 837           |                      |
| 6 | PCB-20    | 6.399          | bb               | 1284          |                      |
| 7 | DCBP      | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

|   | Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|--------------|---------------------|----------------------|
| 1 | A 1254       | 5177                | 5.000                |
| 2 | A 1254-17/18 | 3026                | 5.000                |
| 3 | A 1254-19/20 | 3056                | 5.000                |
| 4 | A 1254-20    | 3893                | 5.000                |
| 5 | A 1260       | 1284                |                      |
| 6 | A 1260-23/24 | 1284                |                      |
| 7 | A 1262       | 1284                |                      |



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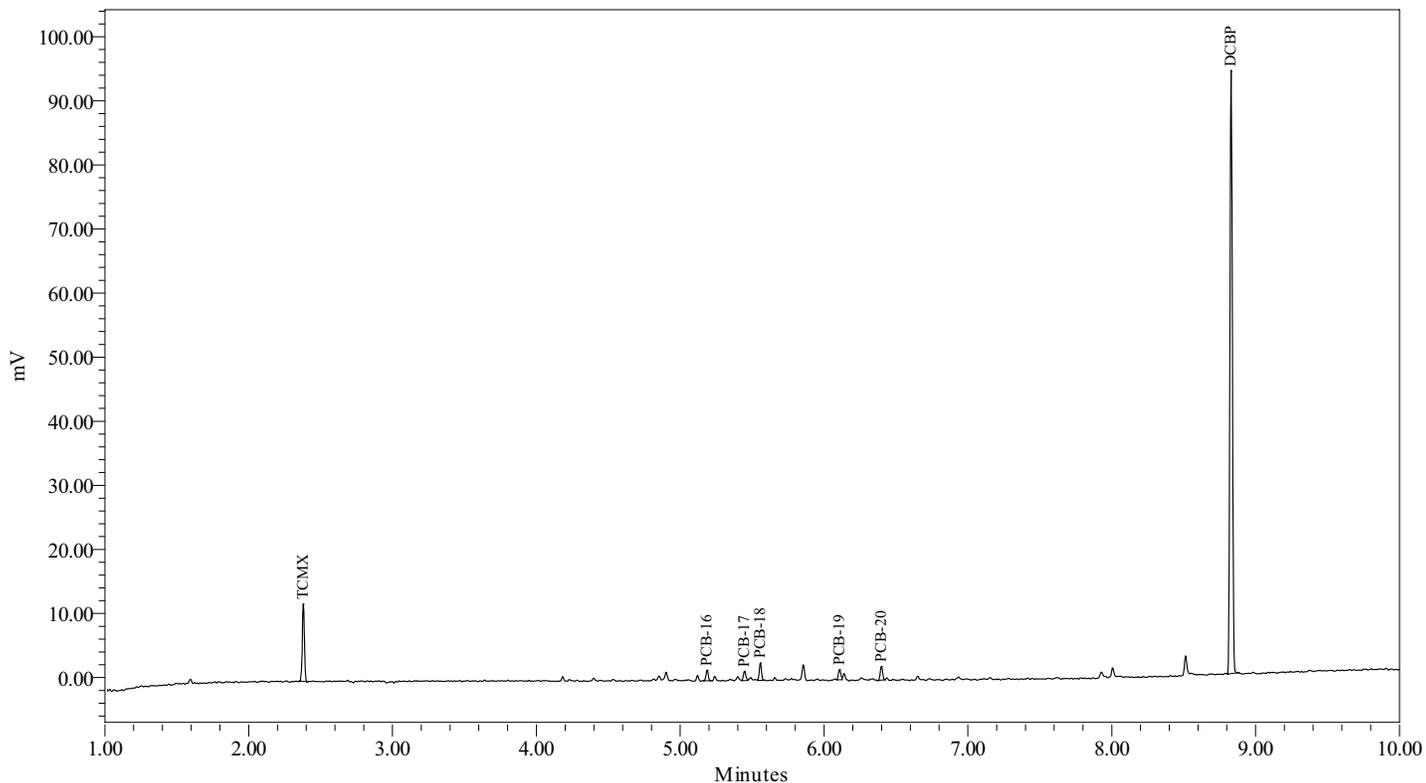
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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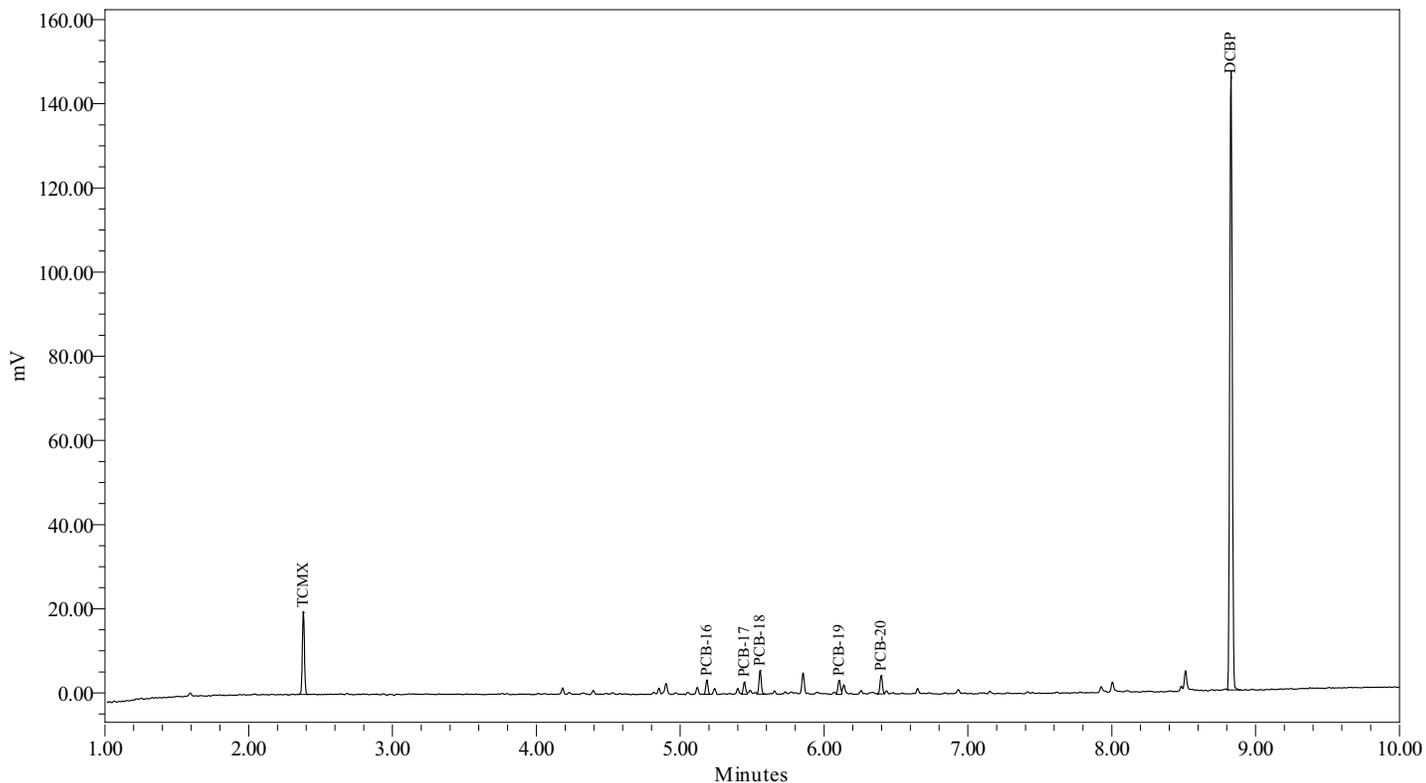
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|---|-----------|----------------|------------------|---------------|----------------------|
| 1 | TCMX      | 2.380          | bb               | 20236         | 4.000                |
| 2 | PCB-16    | 5.186          | bb               | 3722          |                      |
| 3 | PCB-17    | 5.446          | VV               | 3220          |                      |
| 4 | PCB-18    | 5.556          | Vb               | 6352          |                      |
| 5 | PCB-19    | 6.105          | VV               | 4155          |                      |
| 6 | PCB-20    | 6.397          | bV               | 5070          |                      |
| 7 | DCBP      | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

|   | Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|--------------|---------------------|----------------------|
| 1 | A 1254       | 22519               | 20.000               |
| 2 | A 1254-17/18 | 12947               | 20.000               |
| 3 | A 1254-19/20 | 13293               | 20.000               |
| 4 | A 1254-20    | 17448               | 20.000               |
| 5 | A 1260       | 5070                |                      |
| 6 | A 1260-23/24 | 5070                |                      |
| 7 | A 1262       | 5070                |                      |



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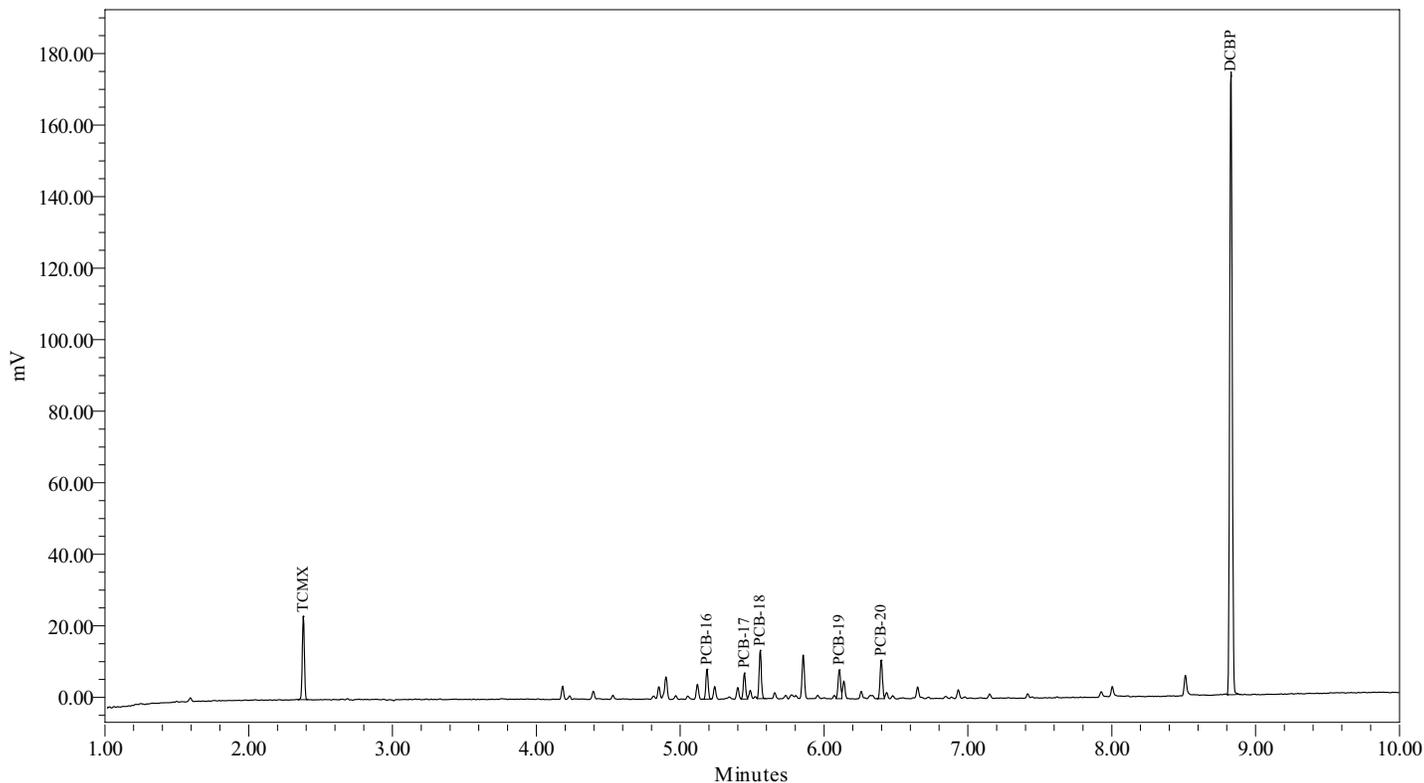
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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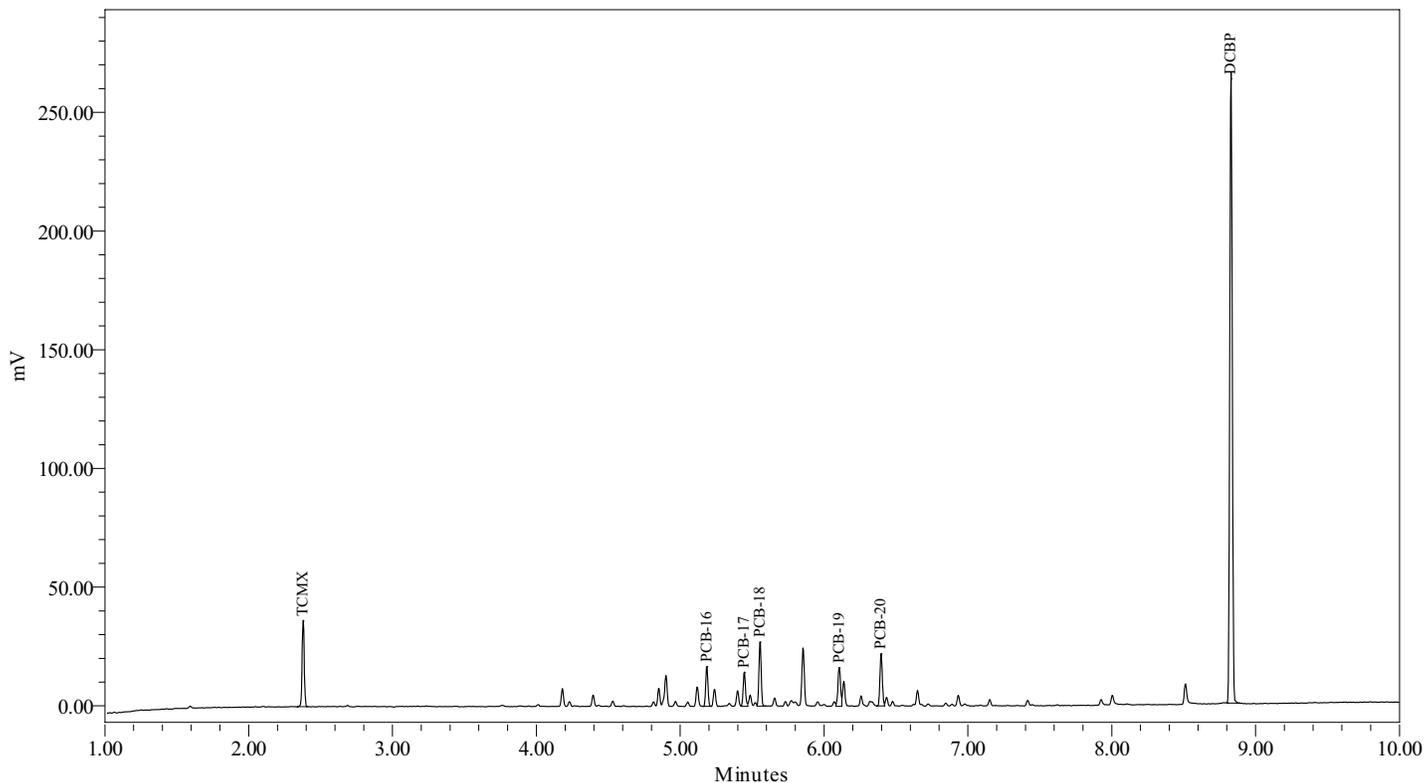
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

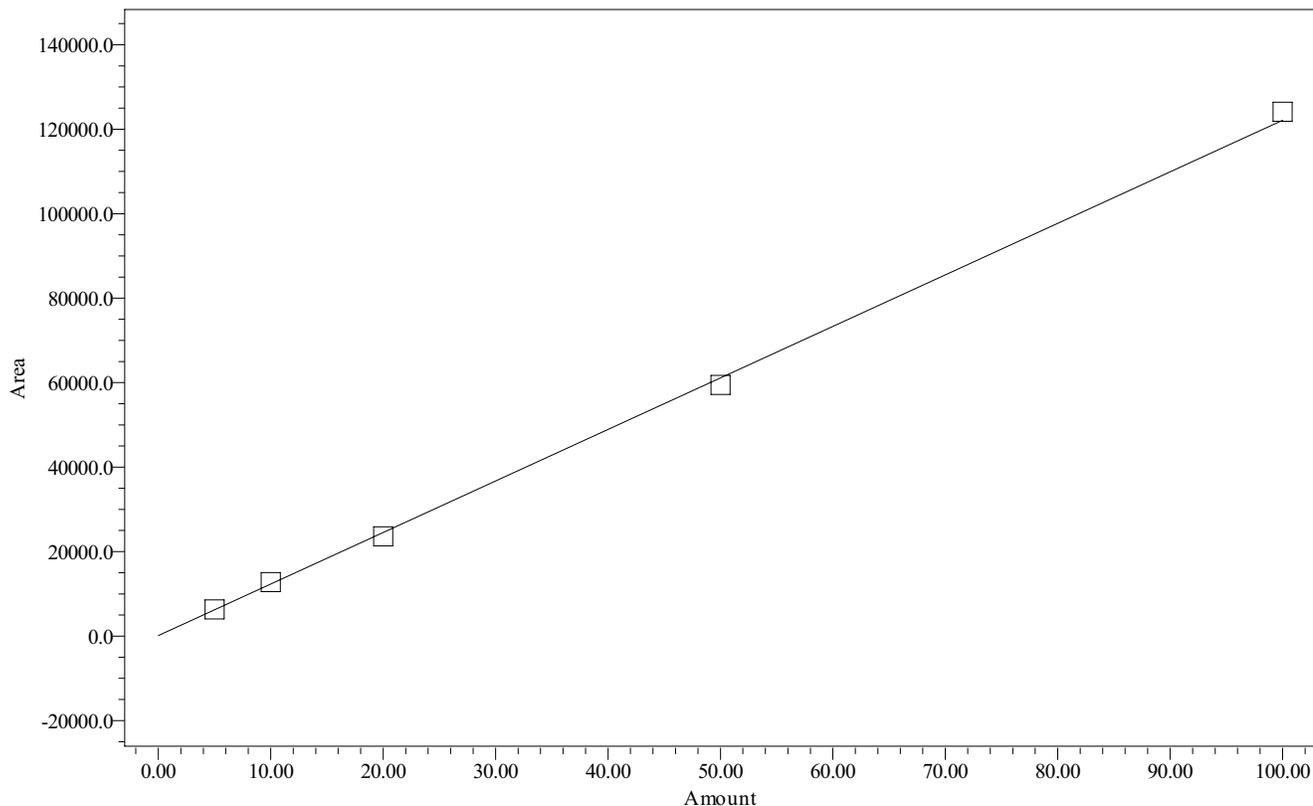
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

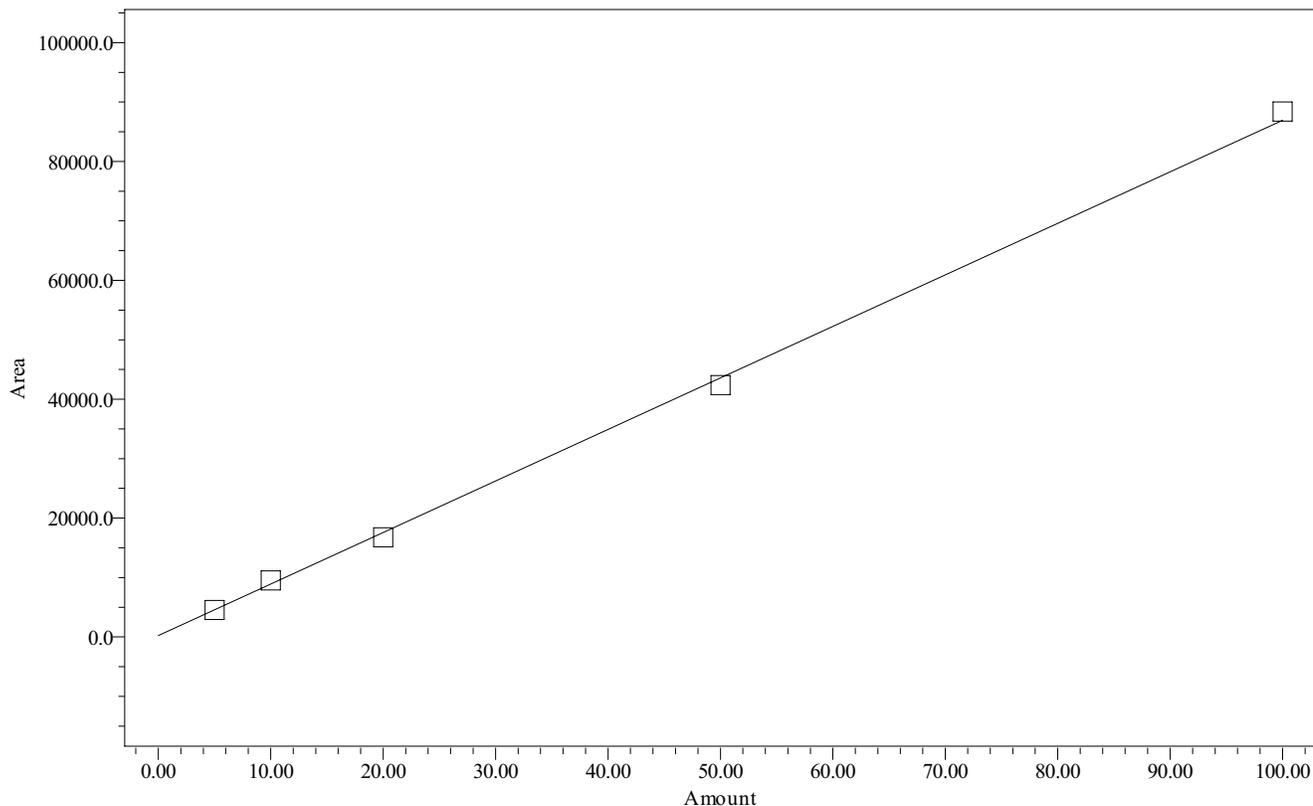
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

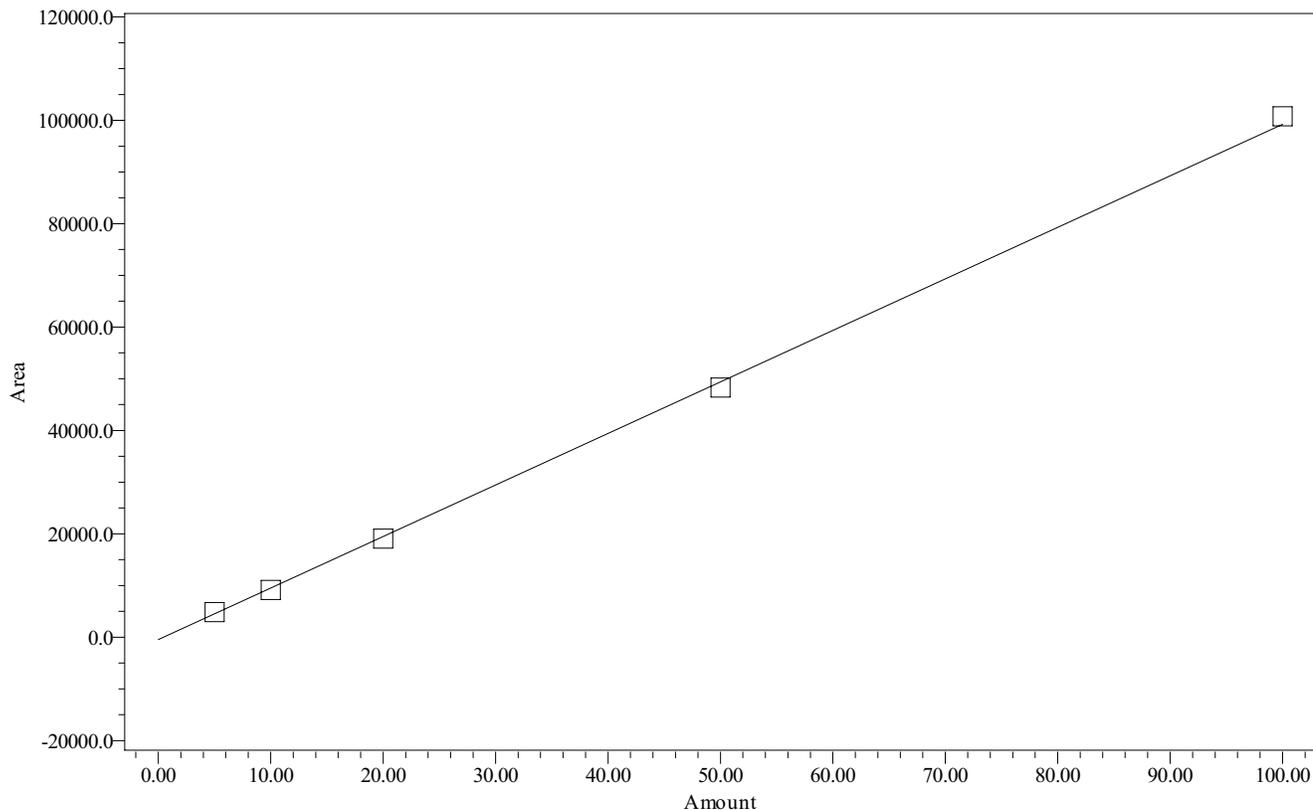
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|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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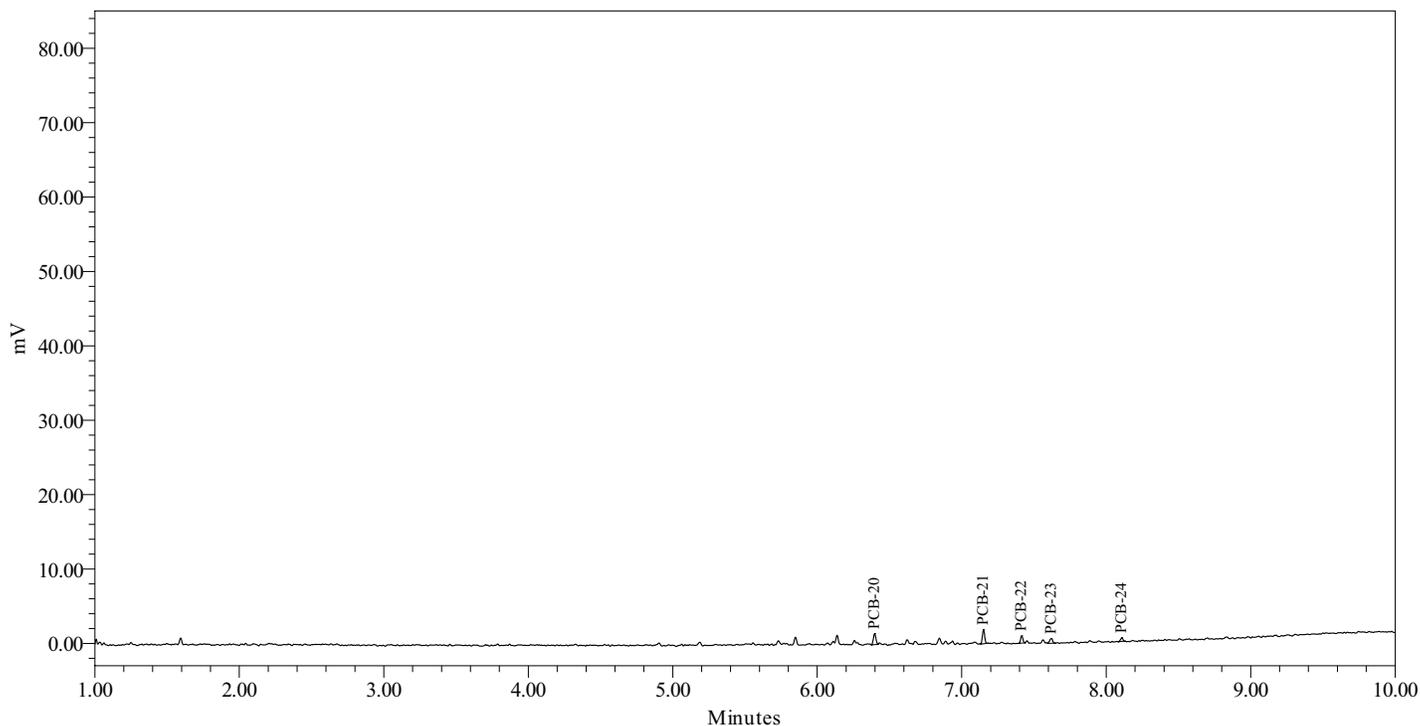
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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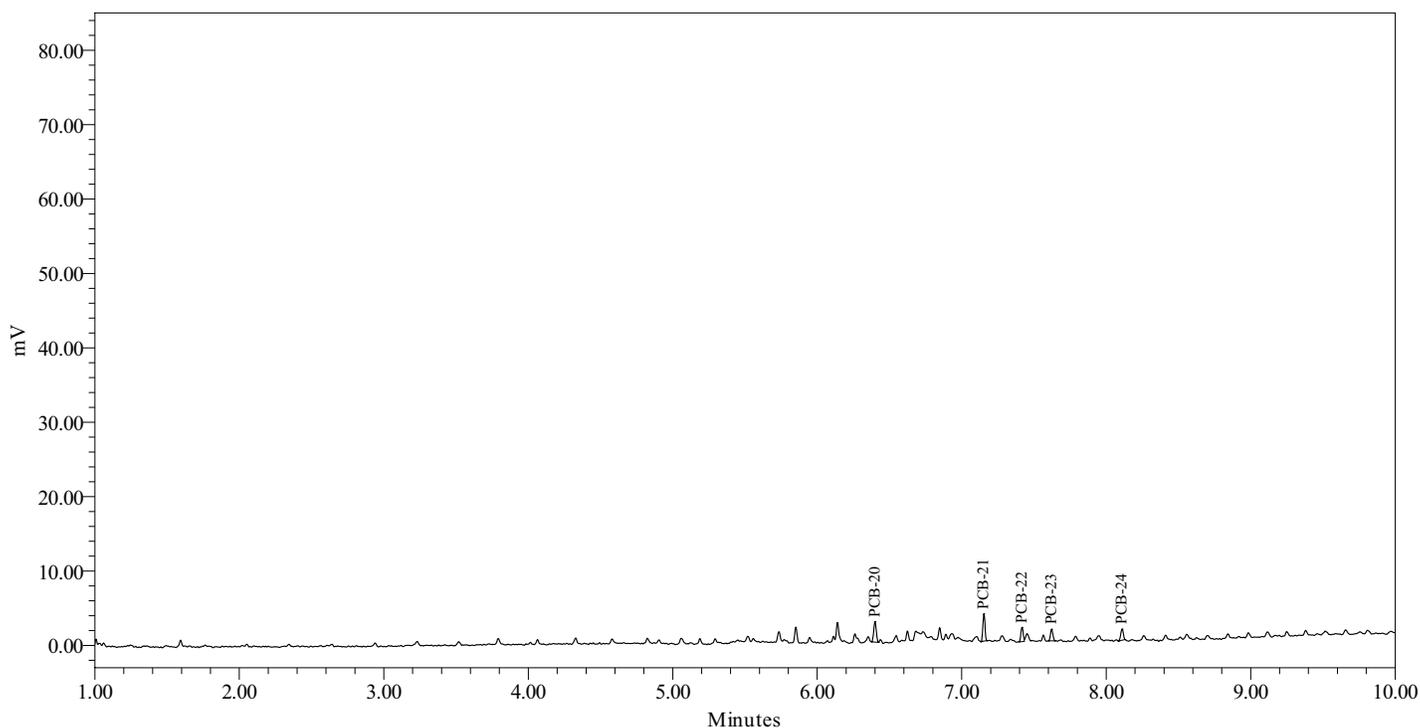
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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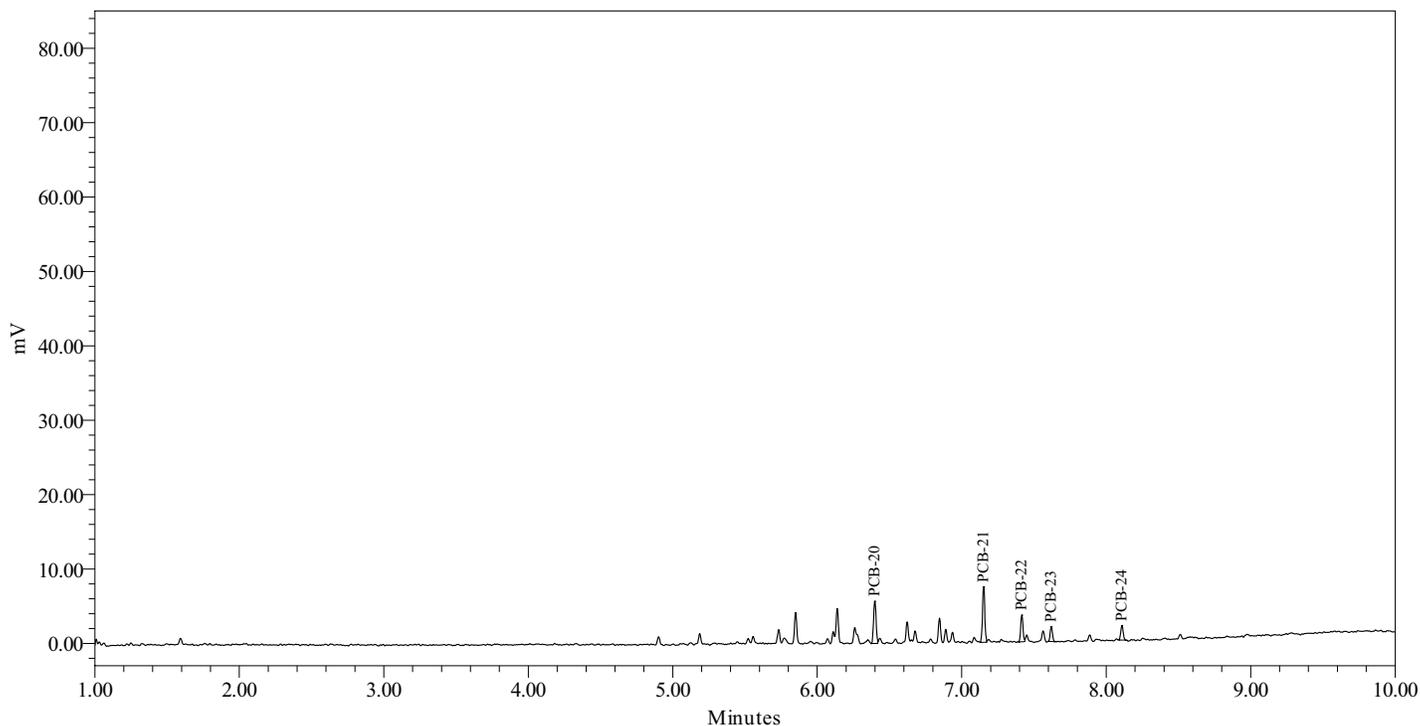
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.398          | bV               | 6857          |
| 2 PCB-21  | 7.152          | bV               | 8361          |
| 3 PCB-22  | 7.416          | bV               | 3857          |
| 4 PCB-23  | 7.620          | bb               | 2258          |
| 5 PCB-24  | 8.109          | bb               | 2285          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 6857                |                      |
| 2 A1254-17/18 | 6857                |                      |
| 3 A1260       | 23617               | 20.000               |
| 4 A1260-20    | 16760               | 20.000               |
| 5 A1260-23/24 | 19075               | 20.000               |
| 6 A1262       | 23617               |                      |
| 7 A1268       | 4543                |                      |



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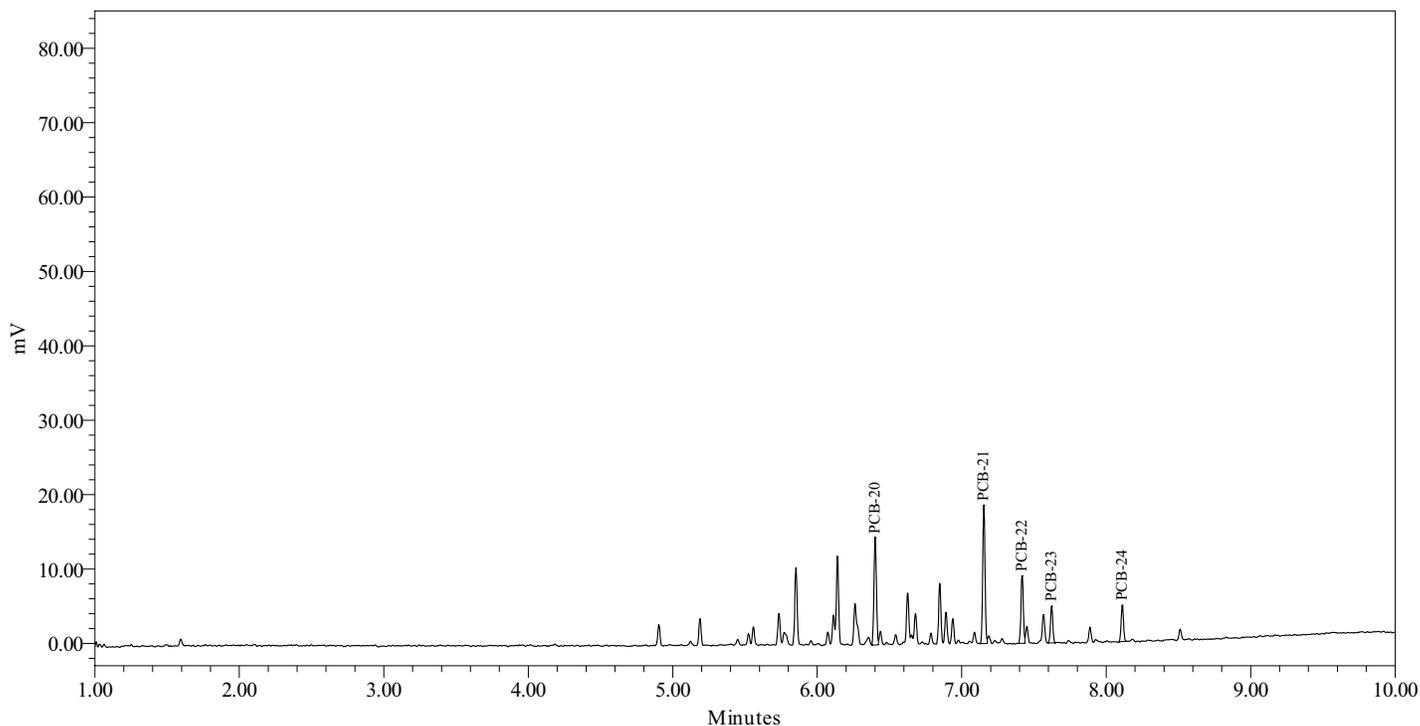
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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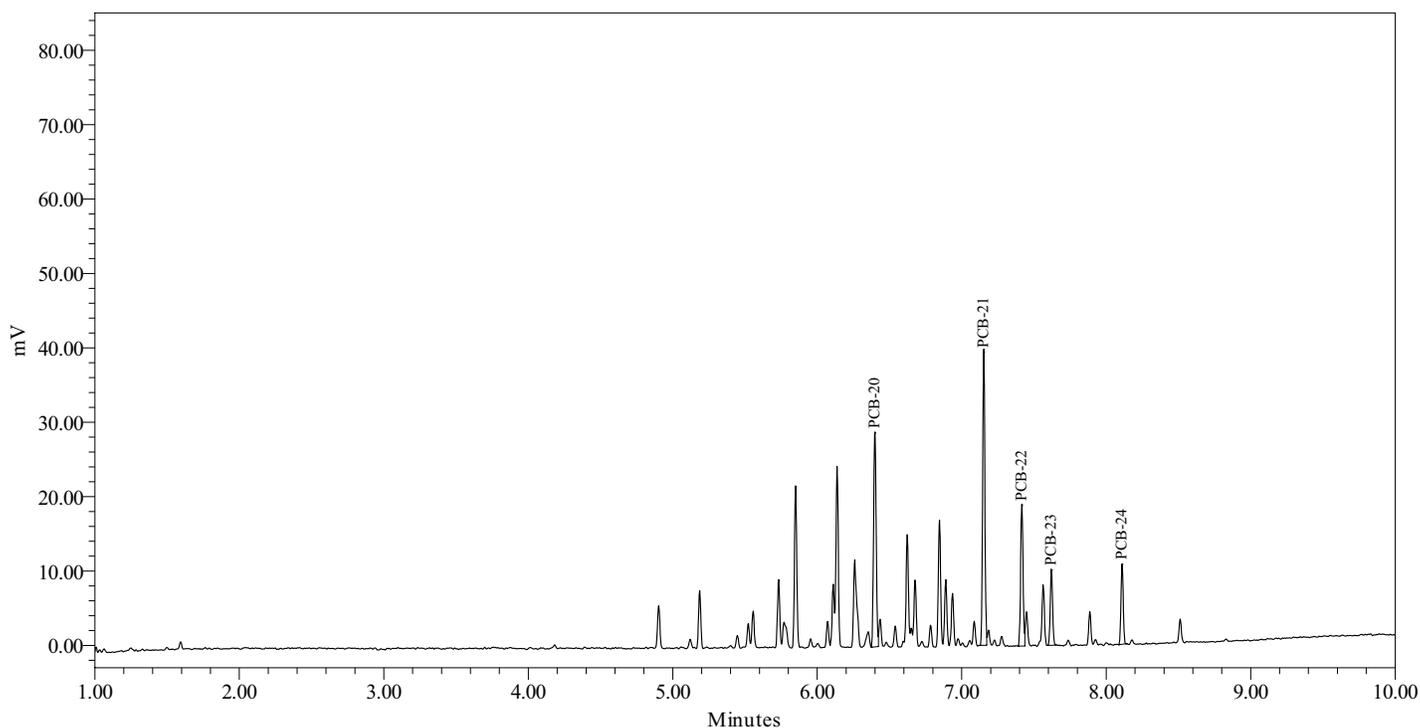
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

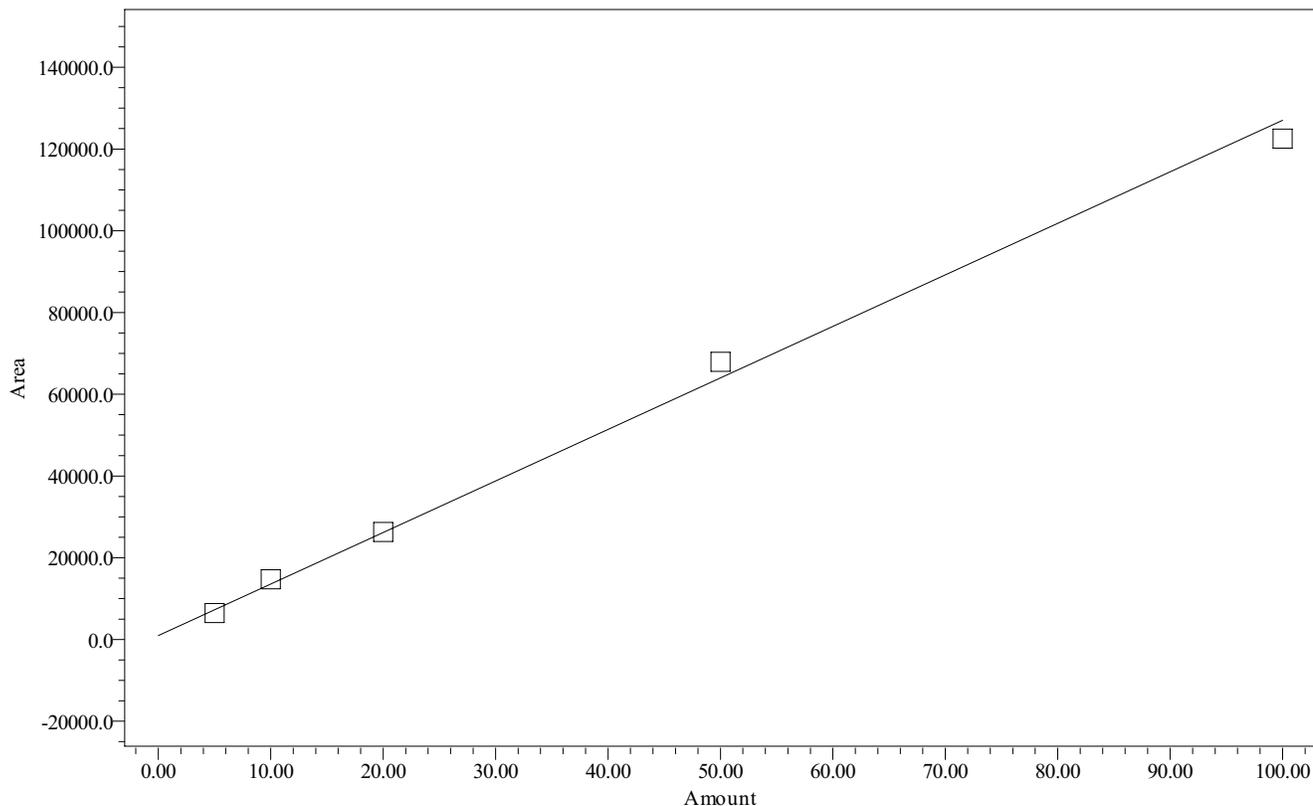
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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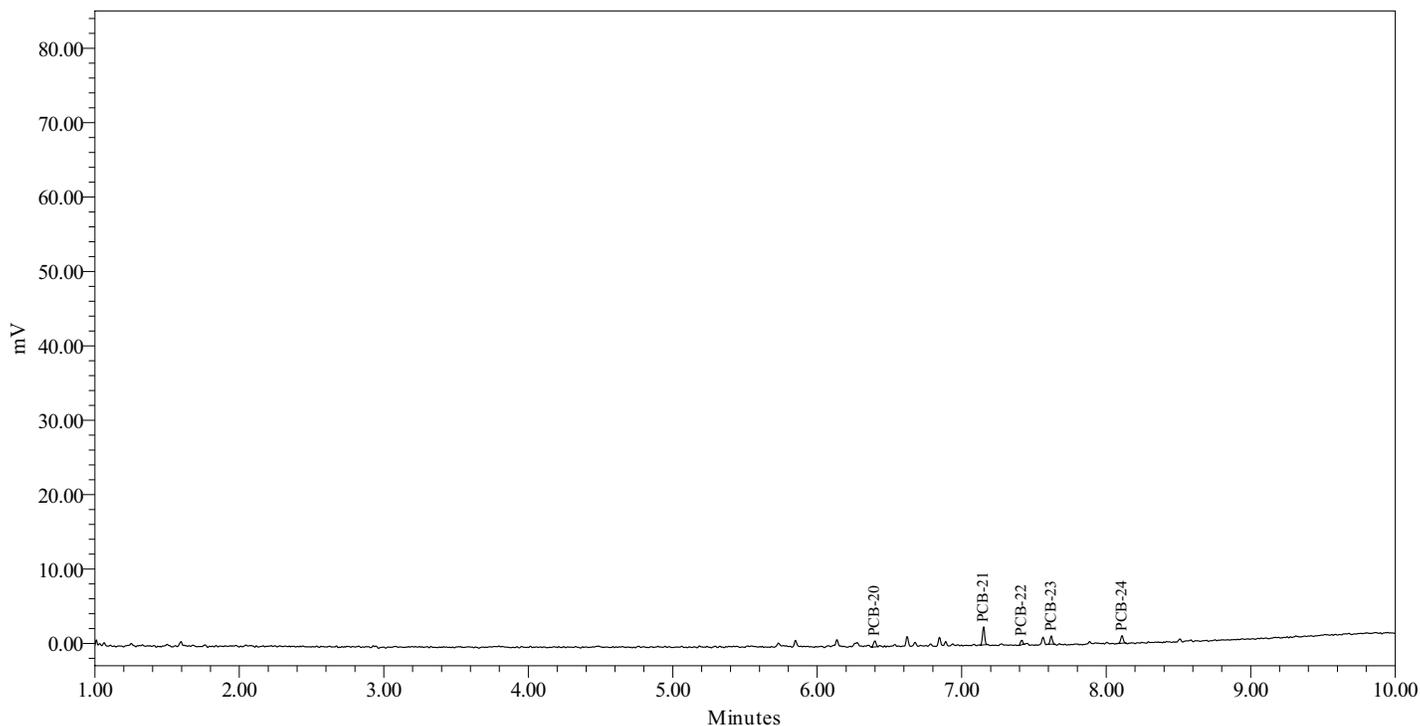
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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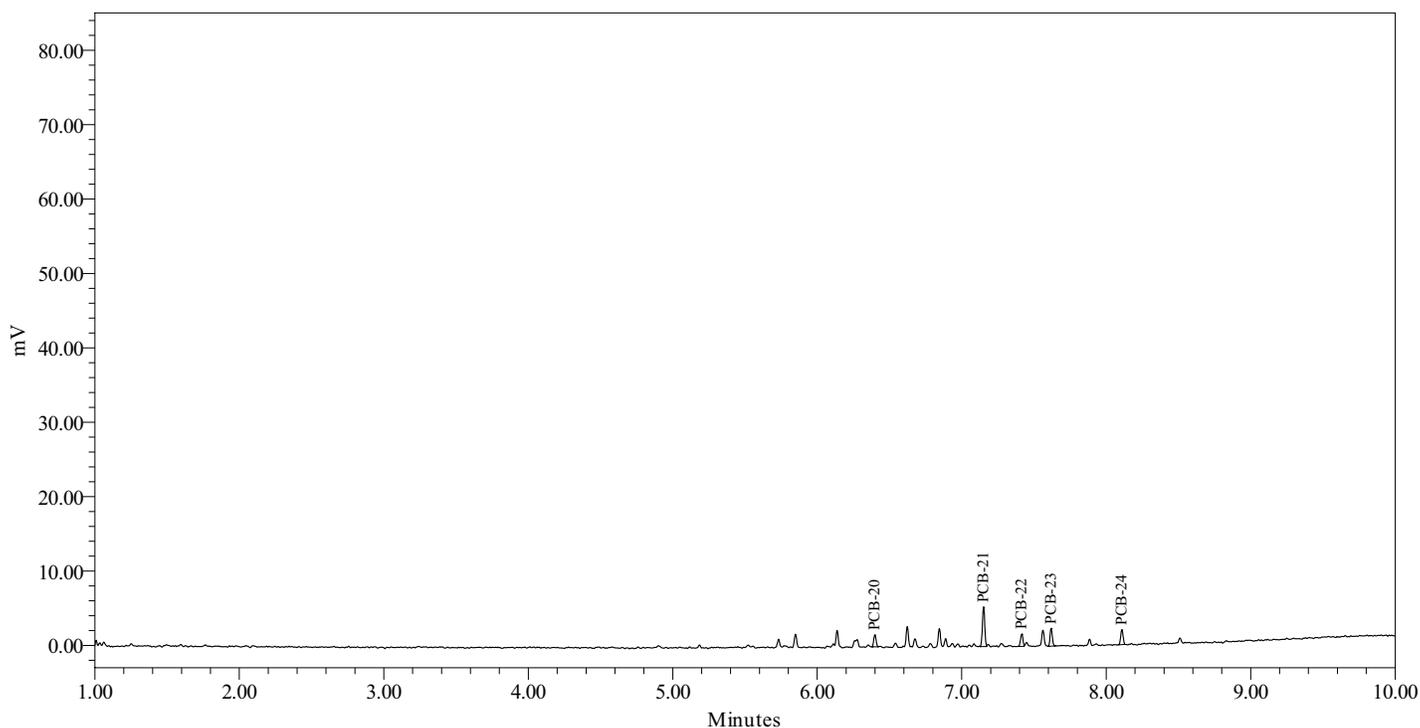
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 1780          |
| 2 | PCB-21    | 7.151          | bV               | 6127          |
| 3 | PCB-22    | 7.416          | bV               | 1857          |
| 4 | PCB-23    | 7.619          | bb               | 2674          |
| 5 | PCB-24    | 8.108          | bb               | 2303          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1780                |                      |
| 2 | A1254-17/18 | 1780                |                      |
| 3 | A1260       | 14741               |                      |
| 4 | A1260-20    | 12961               |                      |
| 5 | A1260-23/24 | 9764                |                      |
| 6 | A1262       | 14741               | 10.000               |
| 7 | A1268       | 4976                |                      |



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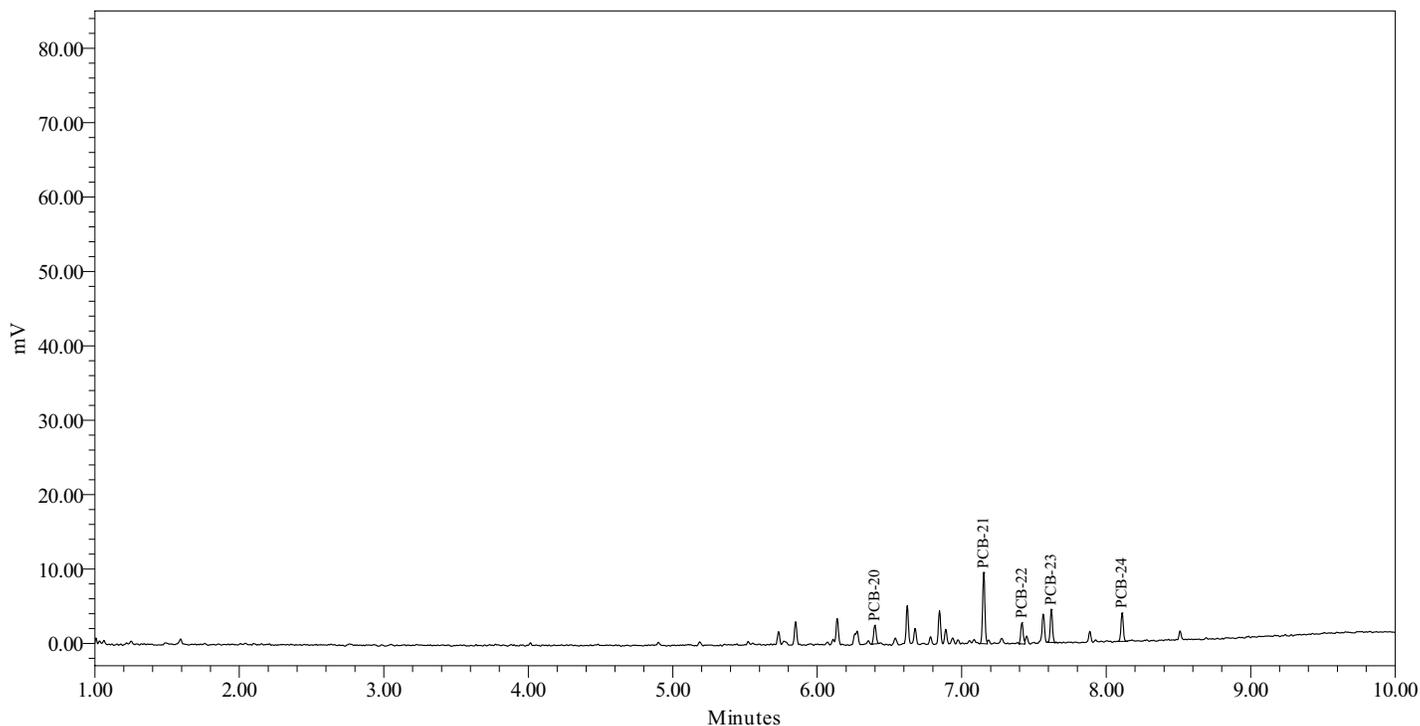
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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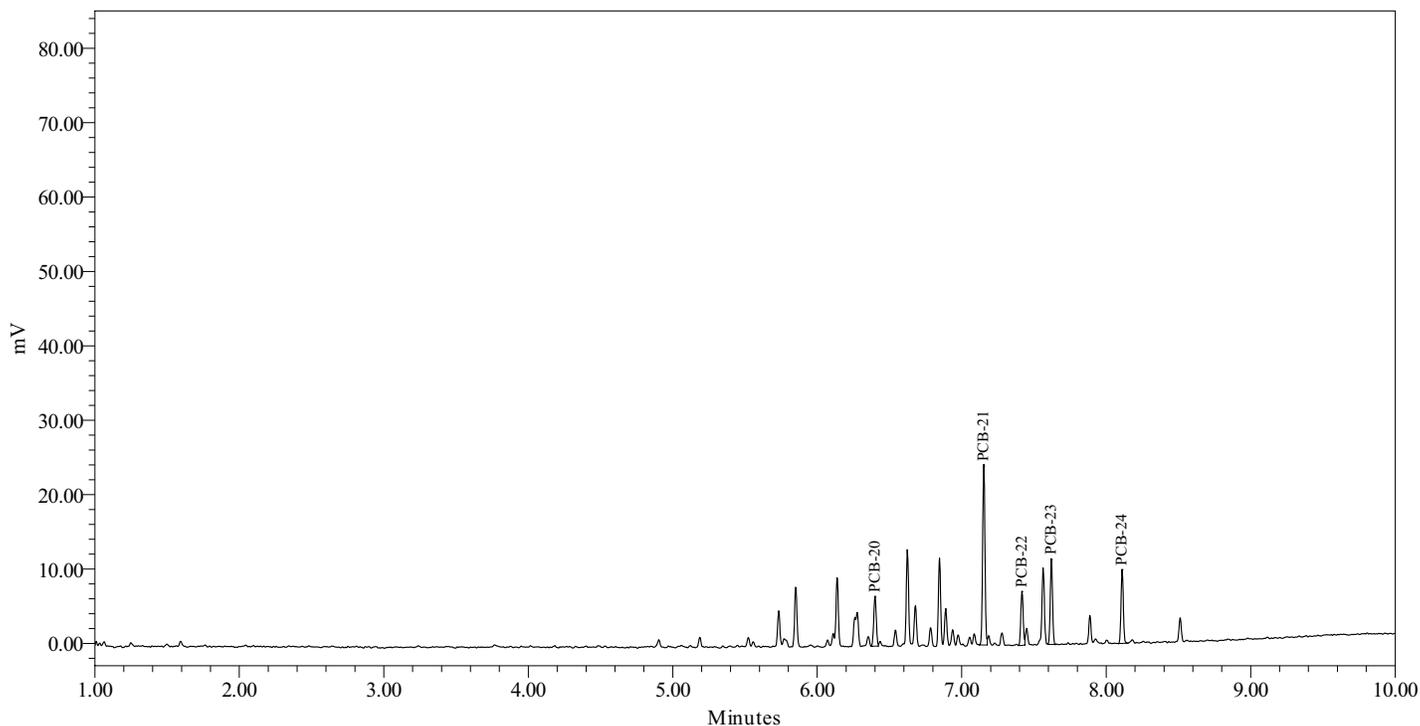
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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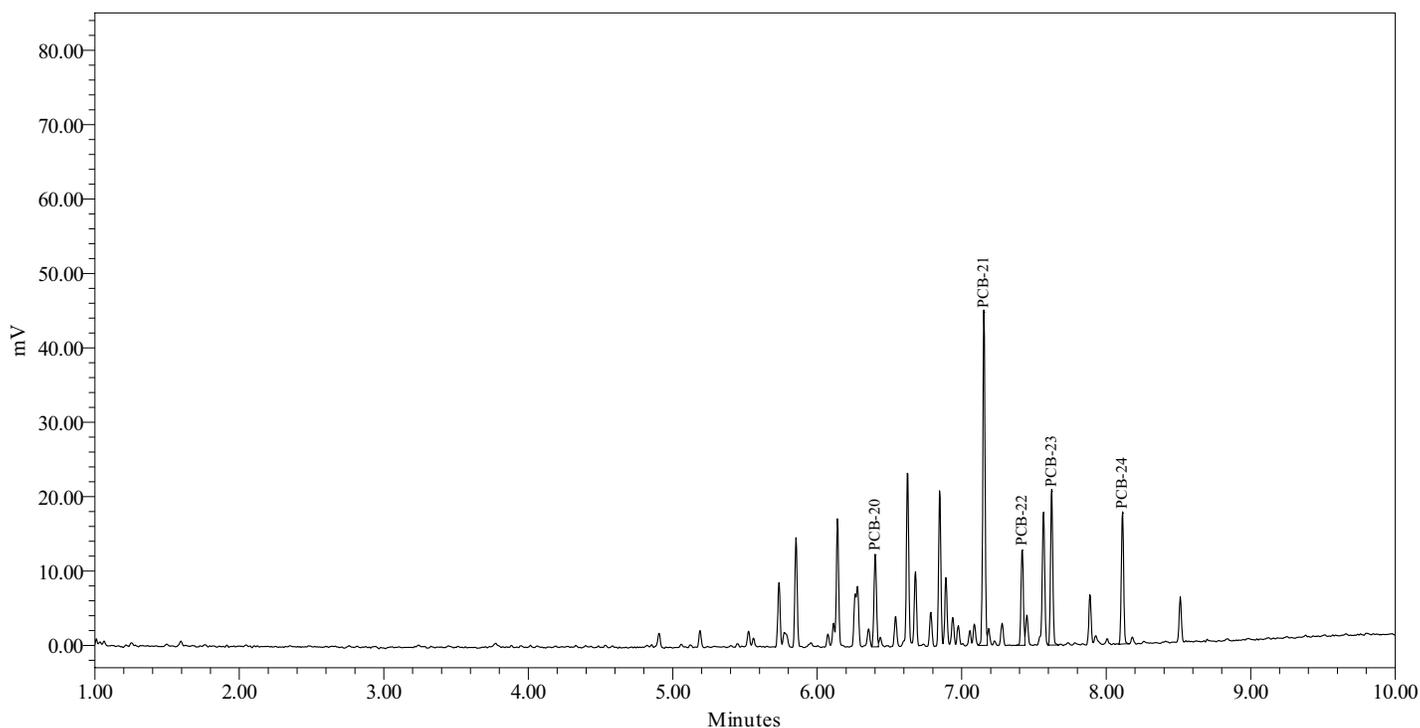
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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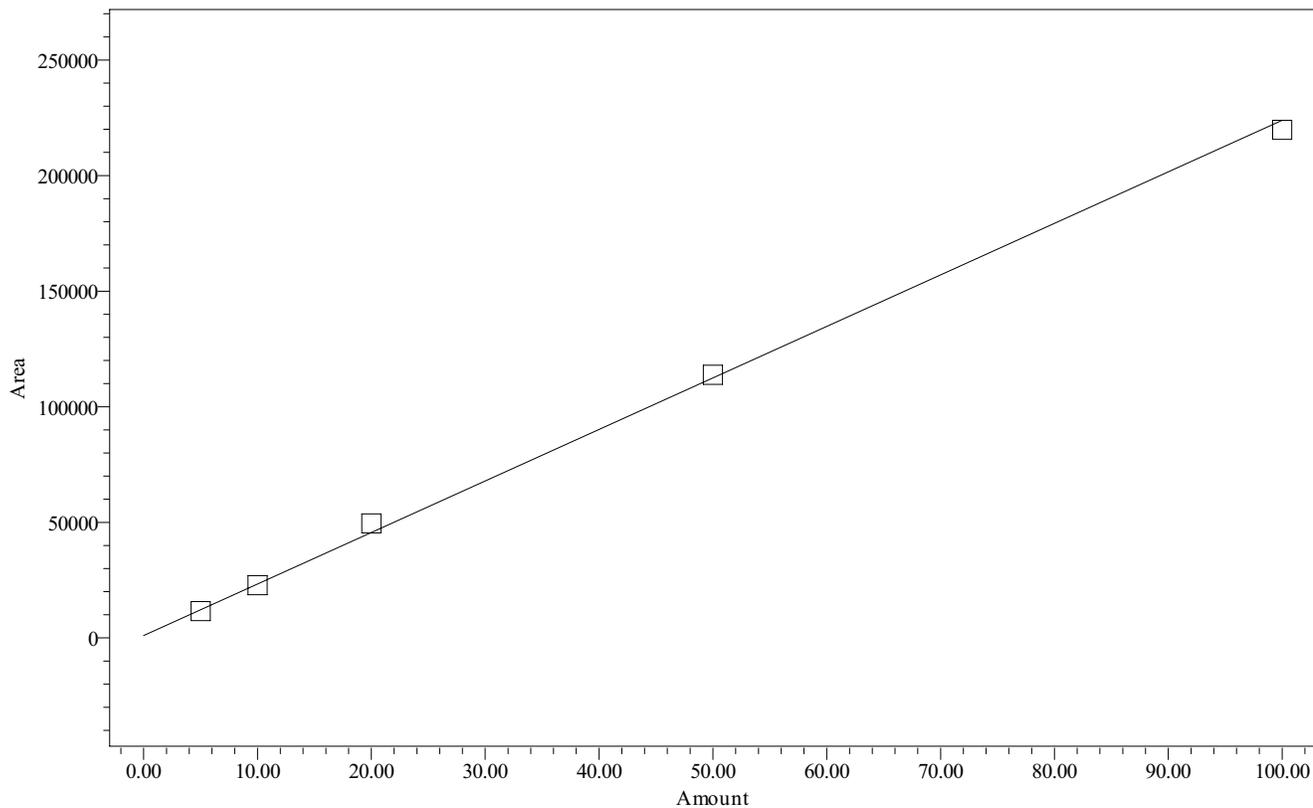
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A 1268-23/24 |
|-----------|-------------|-----------|--------------|
| 1         | 031268A     | 2310.2768 | 1362.1525    |
| 2         | 031268B     | 2277.3915 | 1370.7754    |
| 3         | 031268C     | 2475.6188 | 1463.7598    |
| 4         | 031268D     | 2277.1330 | 1356.7050    |
| 5         | 031268E     | 2197.8075 | 1306.0591    |
| Mean      |             | 2307.646  | 1371.890     |
| Std. Dev. |             | 102.631   | 57.229       |
| % RSD     |             | 4.45      | 4.17         |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

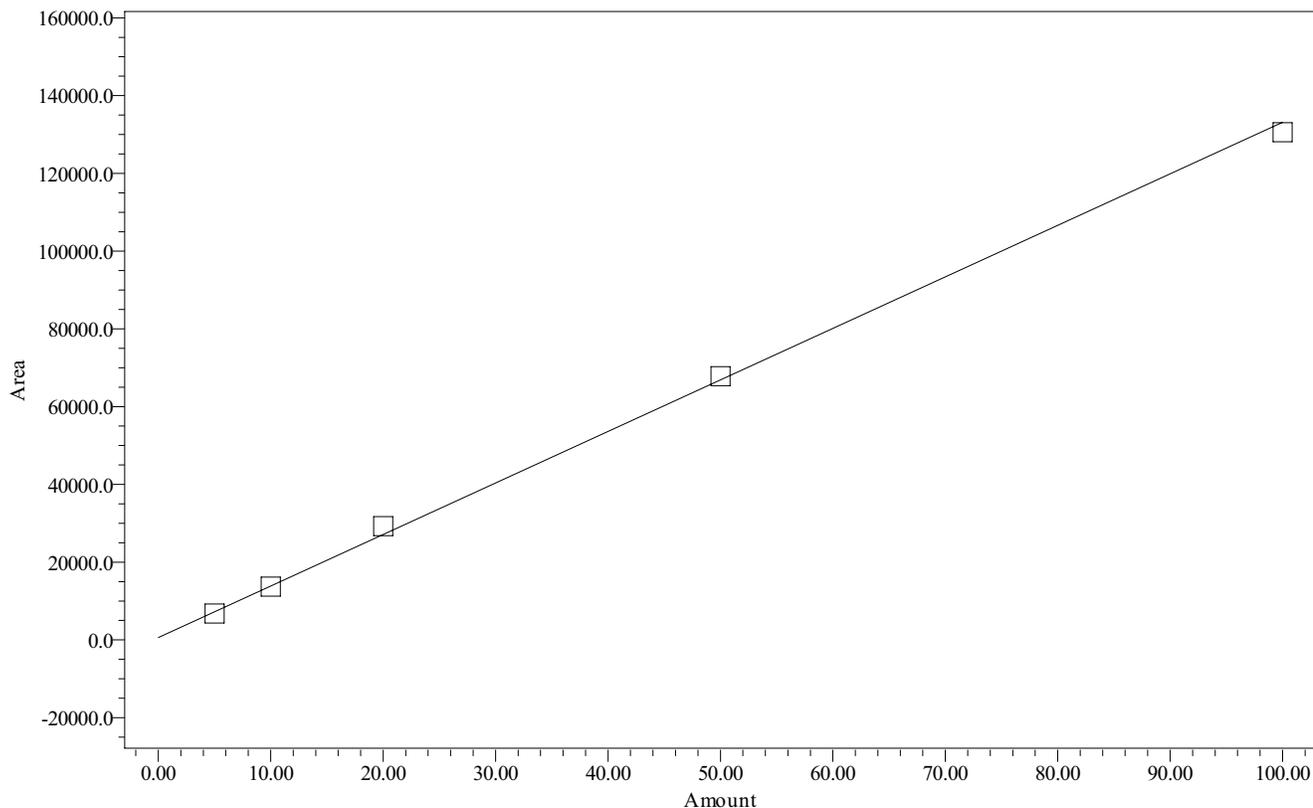
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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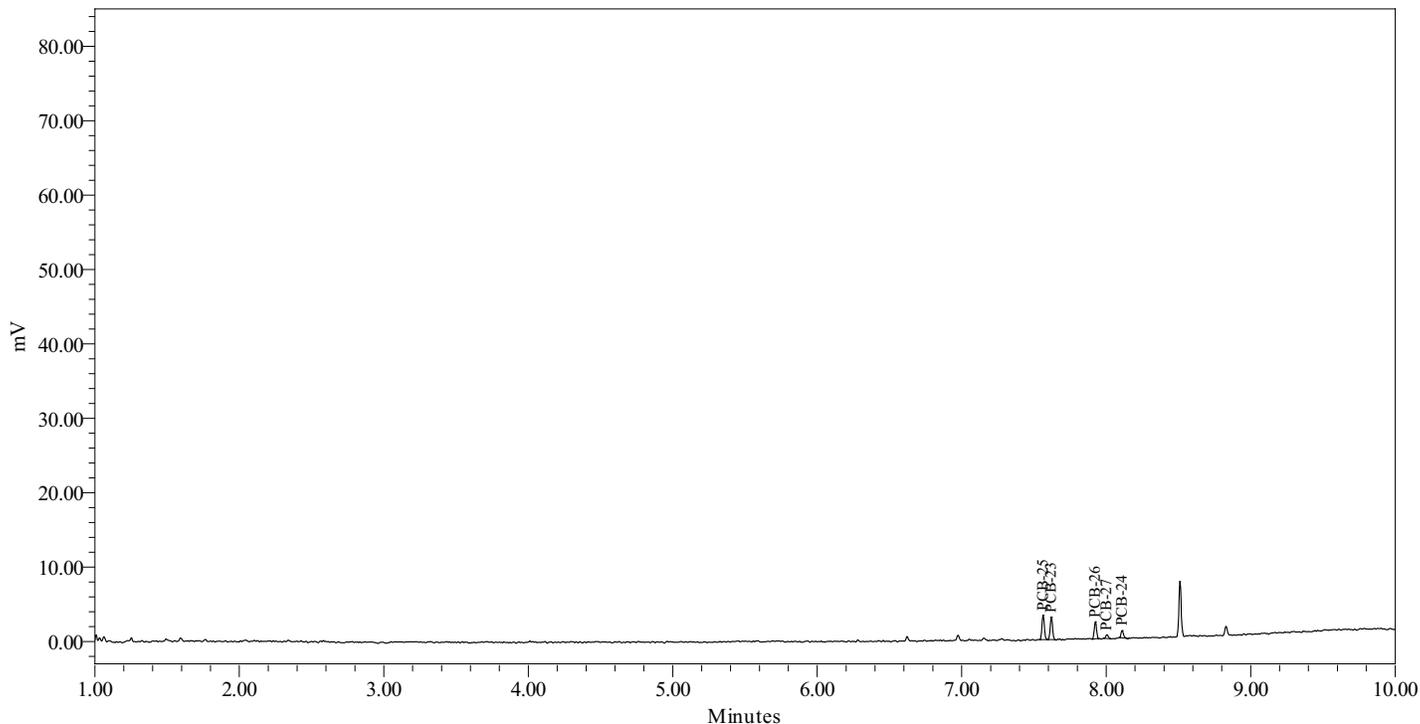
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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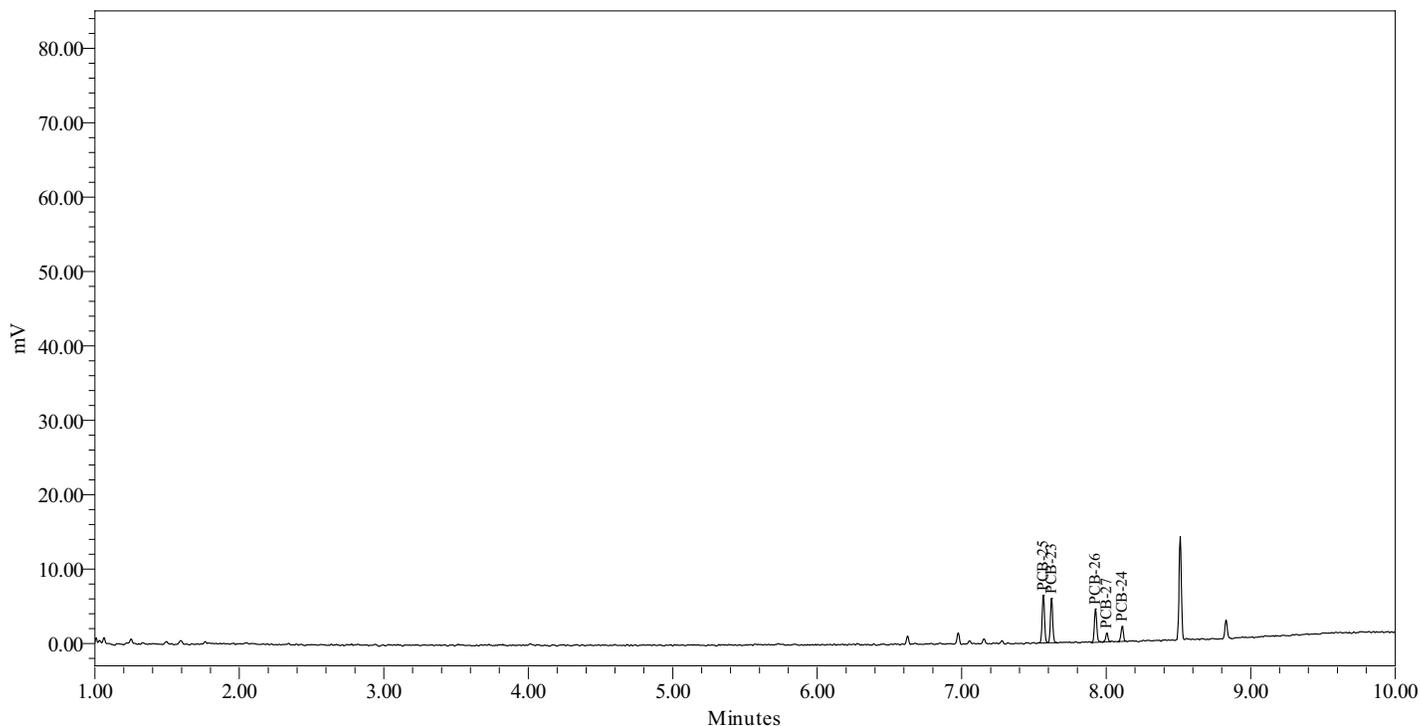
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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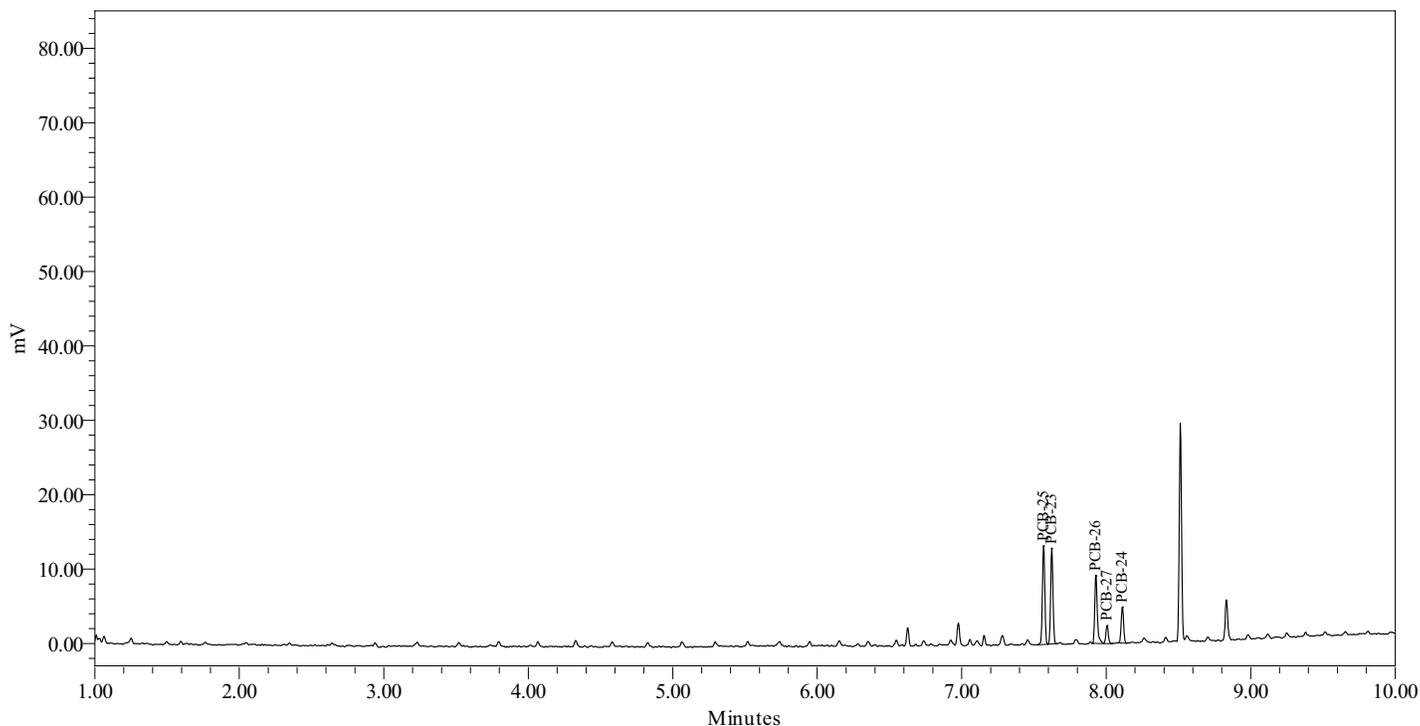
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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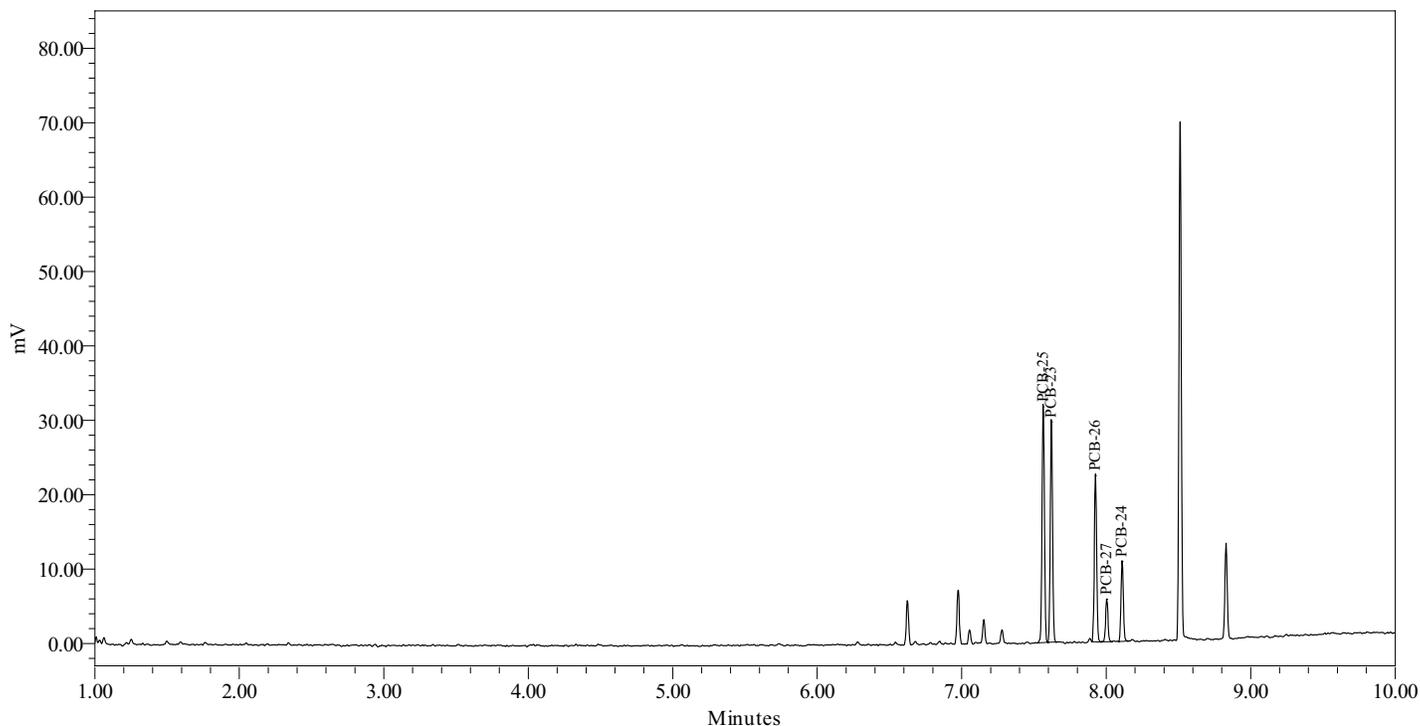
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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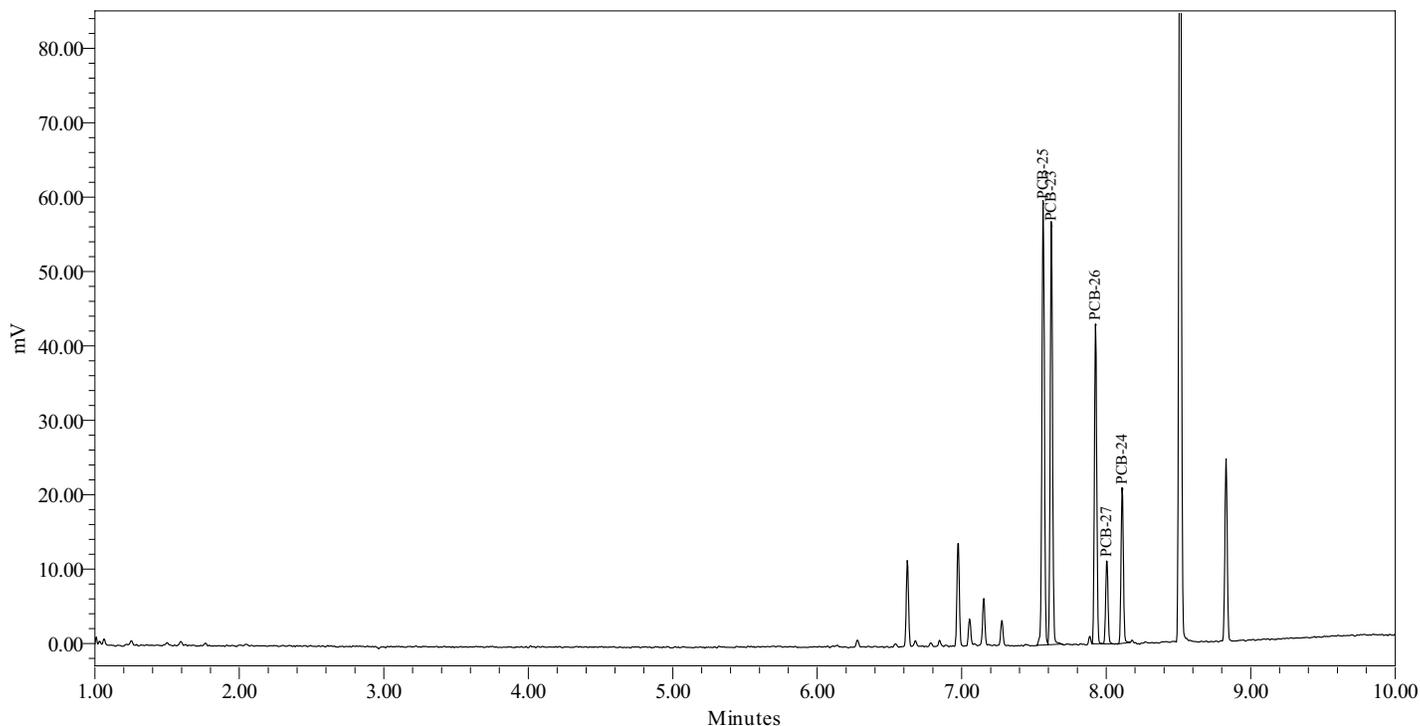
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



11

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060145

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1242 | GC28F-1634-15 | CS420605A     | CCV        | 56.1                | 50                 | 12.2               |   | 06/05/2015 17:15:36  |
| Aroclor 1254 | GC28F-1634-25 | CS540605A     | CCV        | 55.6                | 50                 | 11.3               |   | 06/05/2015 19:46:25  |
| Aroclor 1016 | GC28F-1635-2  | CS160606A     | CCV        | 54.3                | 50                 | 8.64               |   | 06/06/2015 07:37:02  |
| Aroclor 1221 | GC28F-1635-7  | CS210606A     | CCV        | 51.0                | 50                 | 2.01               |   | 06/06/2015 08:56:32  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060145

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060145

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060145

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1635-2  | CS160606A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS160606A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS160606A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS160606A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS160606A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1635-7  | CS210606A     | CCV         | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210606A     | CCV         | 2    | 2.29 | 2.22      | 2.38 |
|              |               | CS210606A     | CCV         | 3    | 2.58 | 2.51      | 2.67 |
|              |               | CS210606A     | CCV         | 4    | 2.68 | 2.61      | 2.77 |
|              |               | CS210606A     | CCV         | 5    | 2.75 | 2.68      | 2.84 |
| Aroclor 1242 | GC28F-1634-15 | CS420605A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420605A     | CCV         | 2    | 3.44 | 3.37      | 3.53 |
|              |               | CS420605A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420605A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420605A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1254 | GC28F-1634-25 | CS540605A     | CCV         | 1    | 5.18 | 5.11      | 5.27 |
|              |               | CS540605A     | CCV         | 2    | 5.44 | 5.37      | 5.53 |
|              |               | CS540605A     | CCV         | 3    | 5.55 | 5.48      | 5.64 |
|              |               | CS540605A     | CCV         | 4    | 6.10 | 6.03      | 6.19 |
|              |               | CS540605A     | CCV         | 5    | 6.39 | 6.32      | 6.48 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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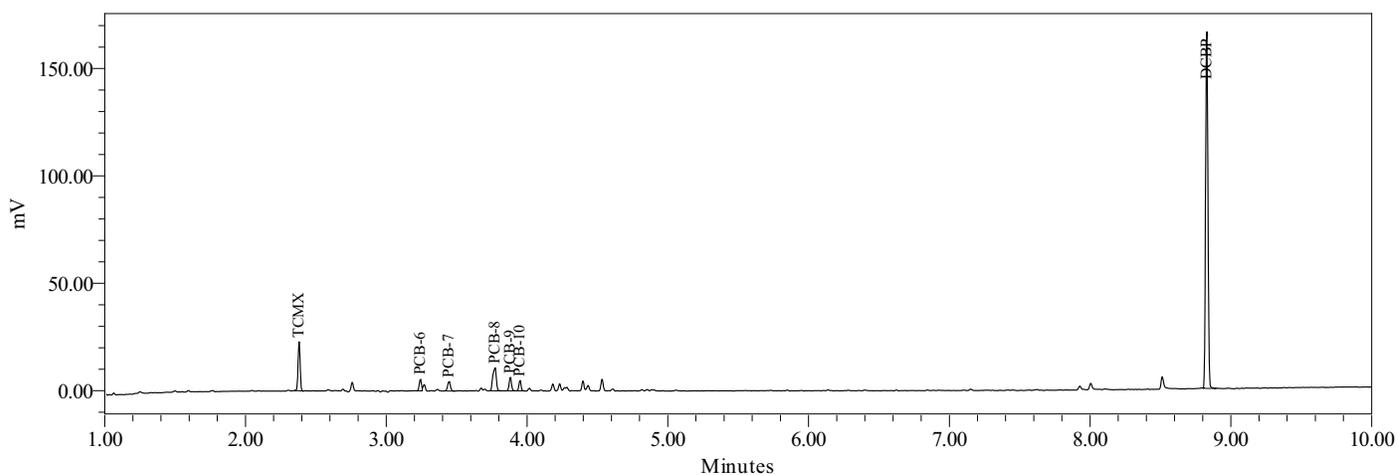
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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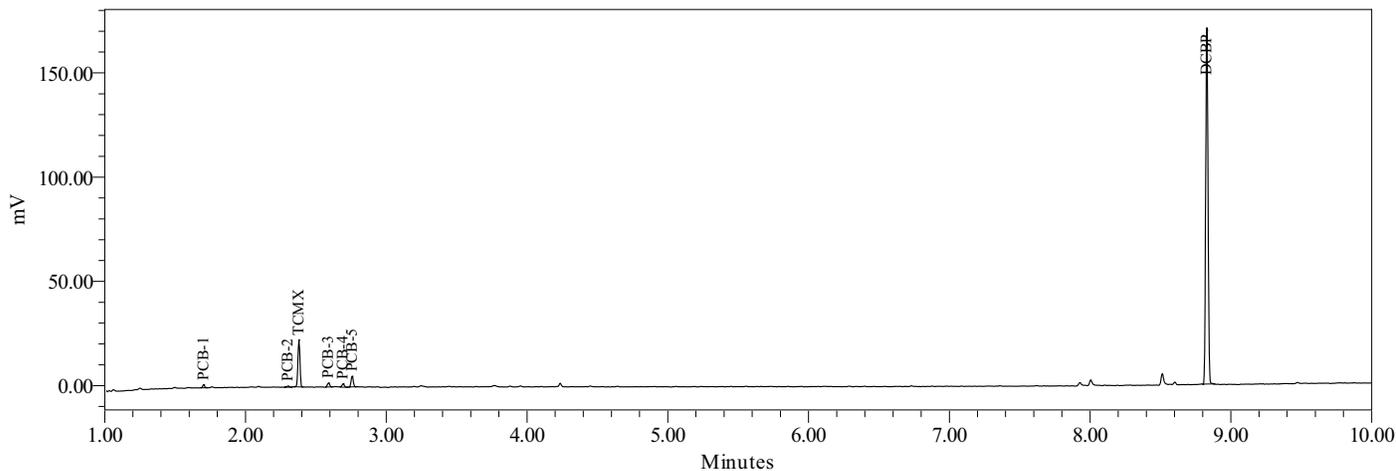
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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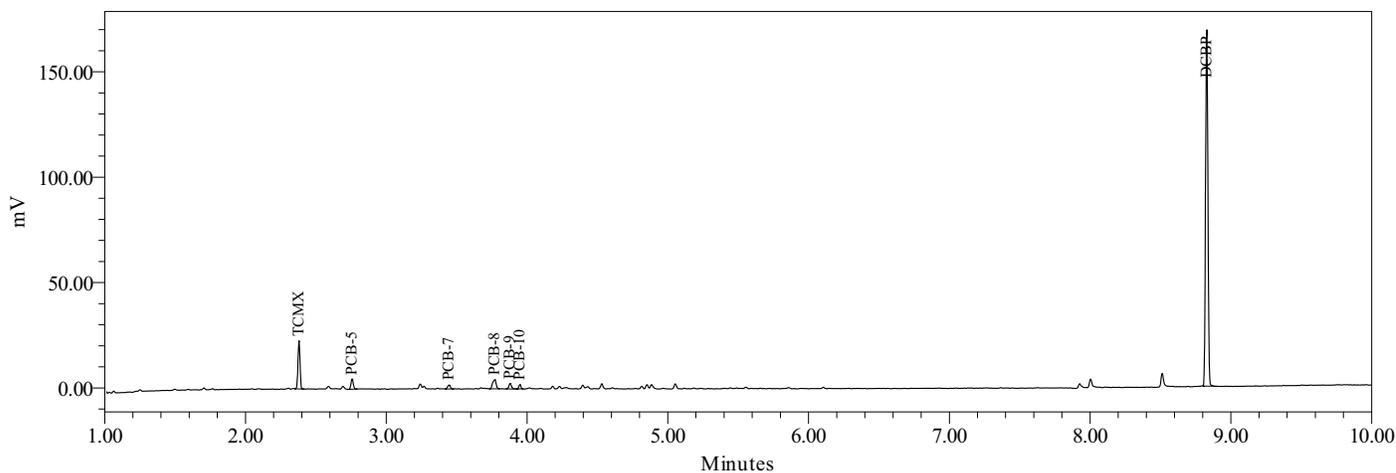
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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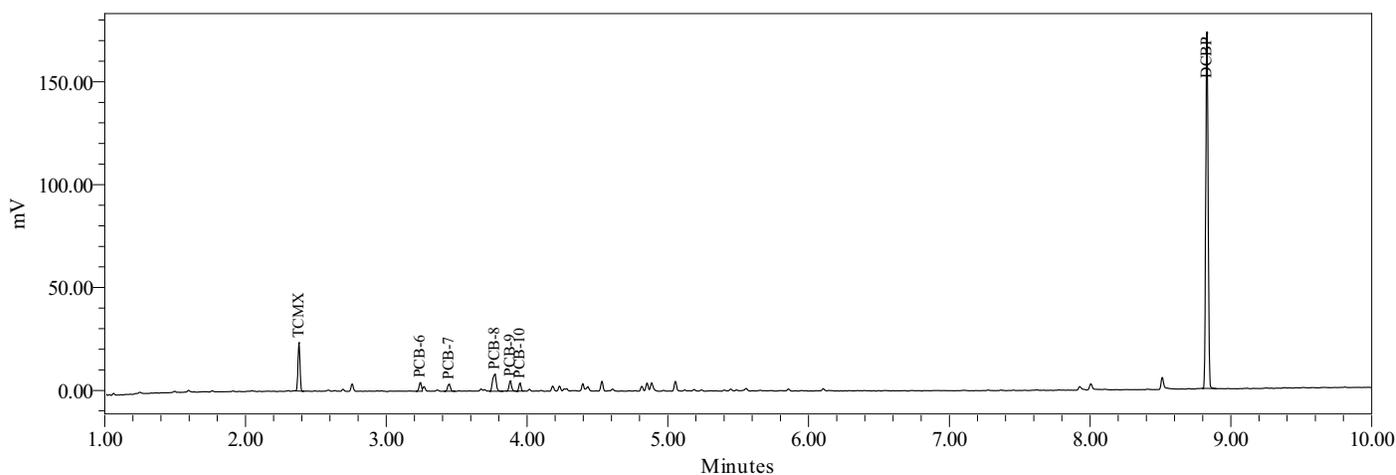
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| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
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| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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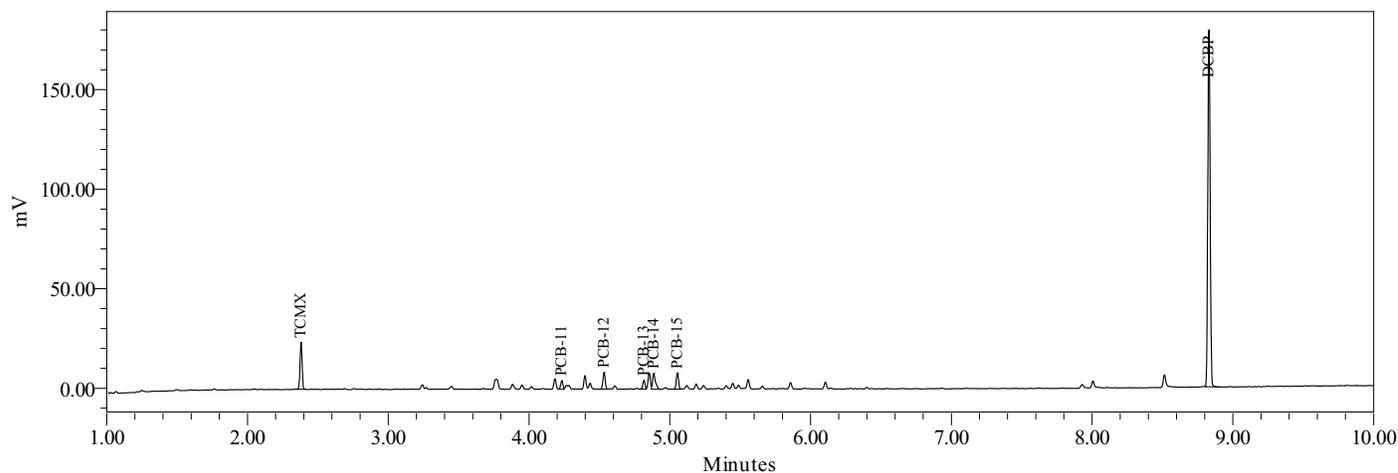
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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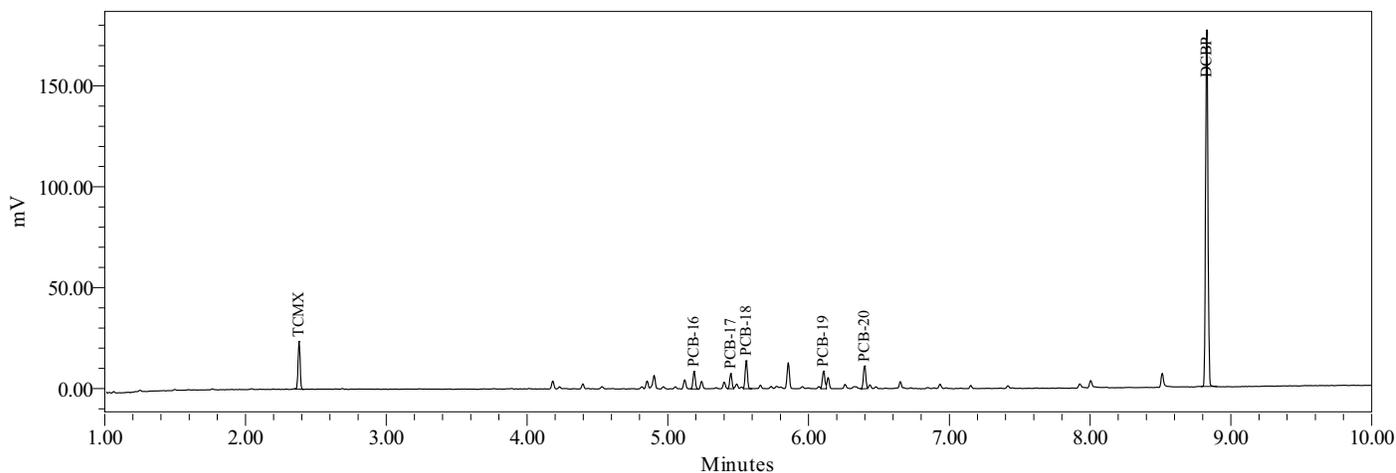
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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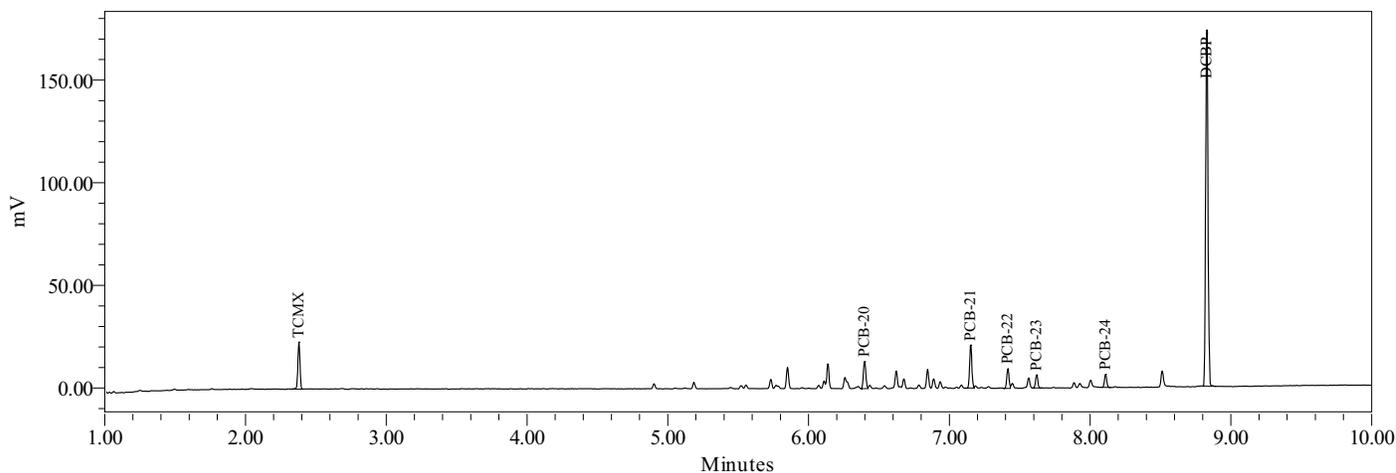
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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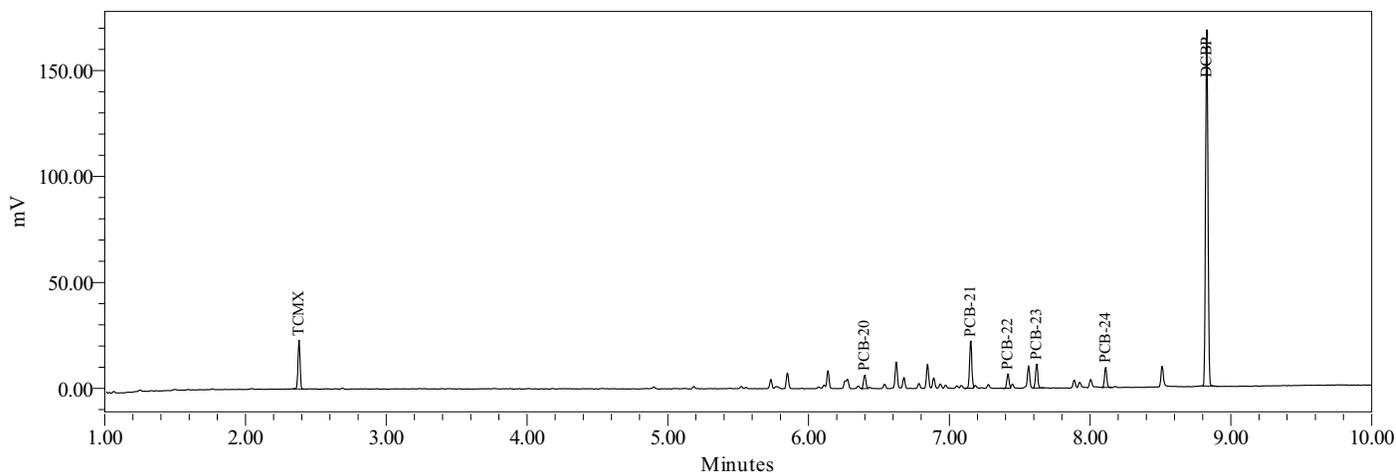
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|--------------------|--------------------------|-----------------|--------------------------|
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| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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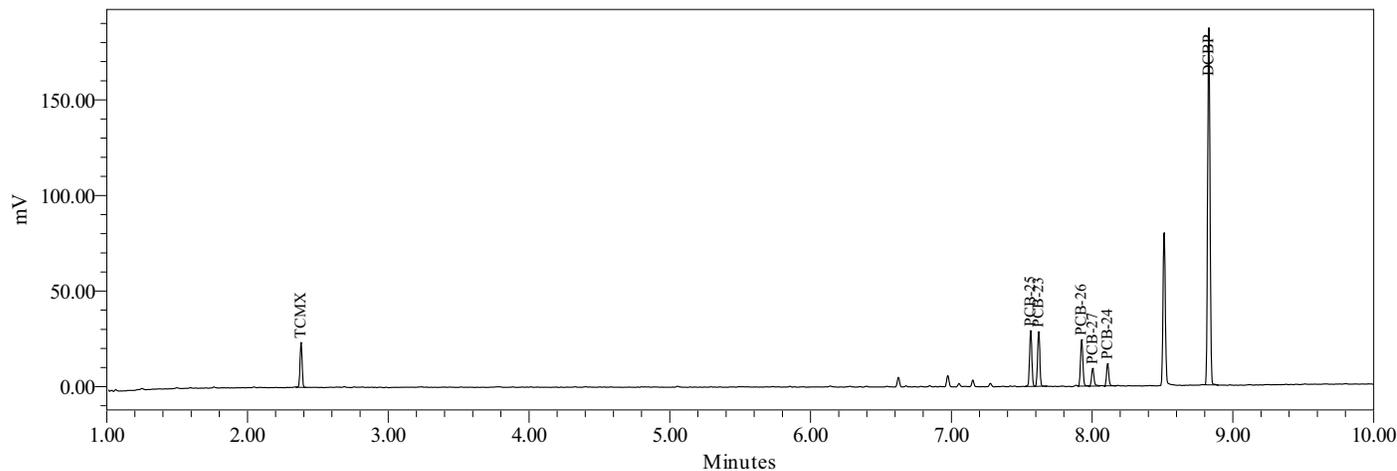
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |

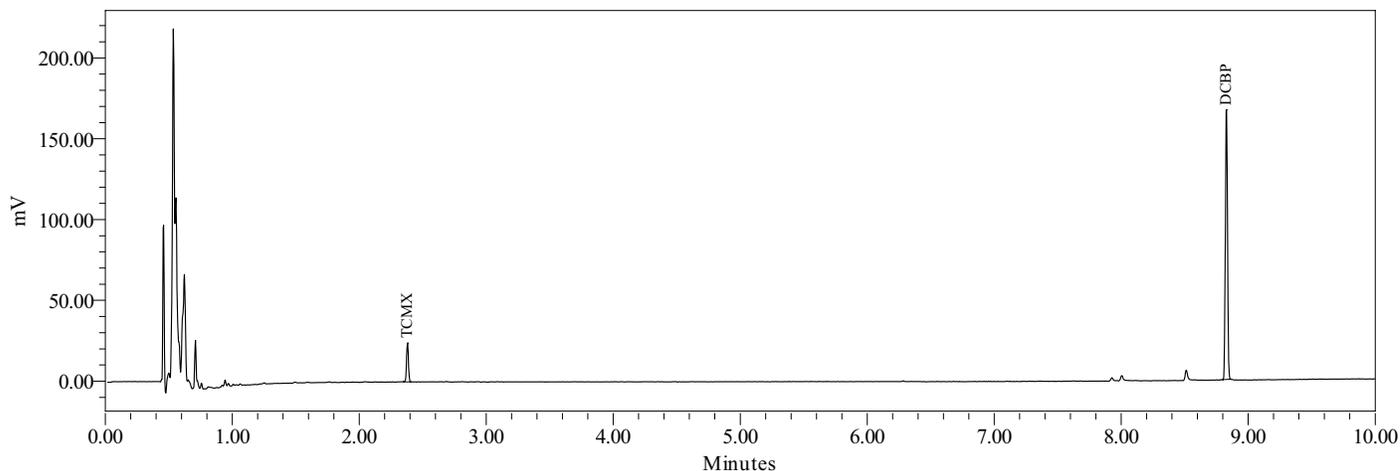


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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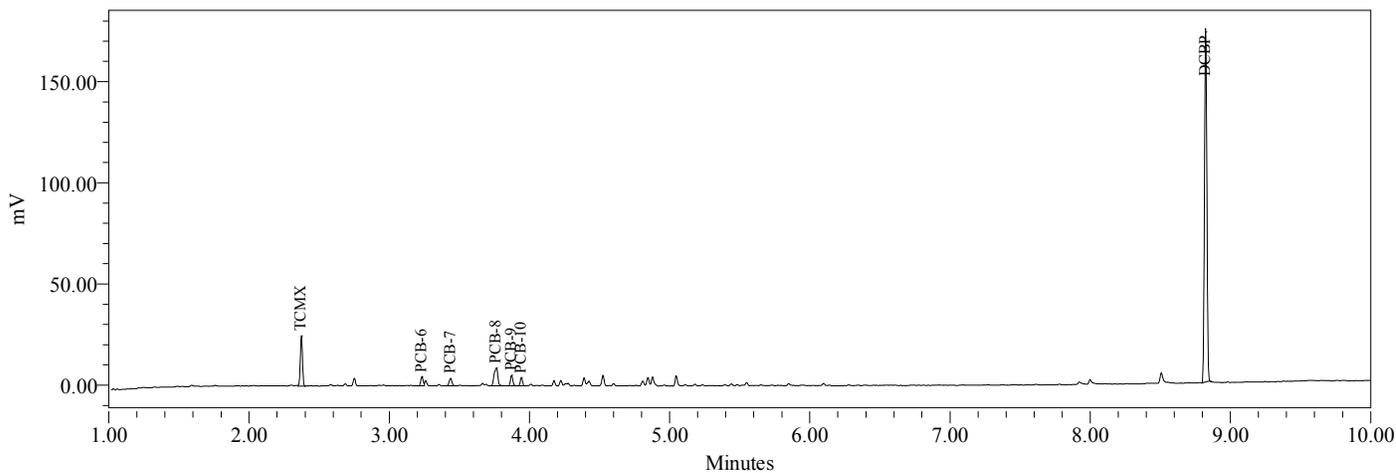
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|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS420605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1242 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 5:15:36 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 5:44:57 PM EDT      |
| Sample Set Name:   | GC28F_060515a           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:19:32 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-15 [m]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | vB               | 25889         | 5.313                | 106.3       |             |
| 2 PCB-6   | 3.233          | VV               | 5342          |                      |             |             |
| 3 PCB-7   | 3.437          | BB               | 5005          |                      |             |             |
| 4 PCB-8   | 3.764          | BB               | 15648         |                      |             |             |
| 5 PCB-9   | 3.873          | BV               | 6494          |                      |             |             |
| 6 PCB-10  | 3.942          | VV               | 4511          |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 204597        | 50.113               |             | 100.2       |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 37000               | 43.831               | -12.34              |        |      |
| 2 A1232     | 31658               | 72.569               | 45.14               |        |      |
| 3 A1232-8/9 | 9516                | 46.235               | -7.53               |        |      |
| 4 A1242     | 37000               | 56.094               | 12.19               | X      |      |



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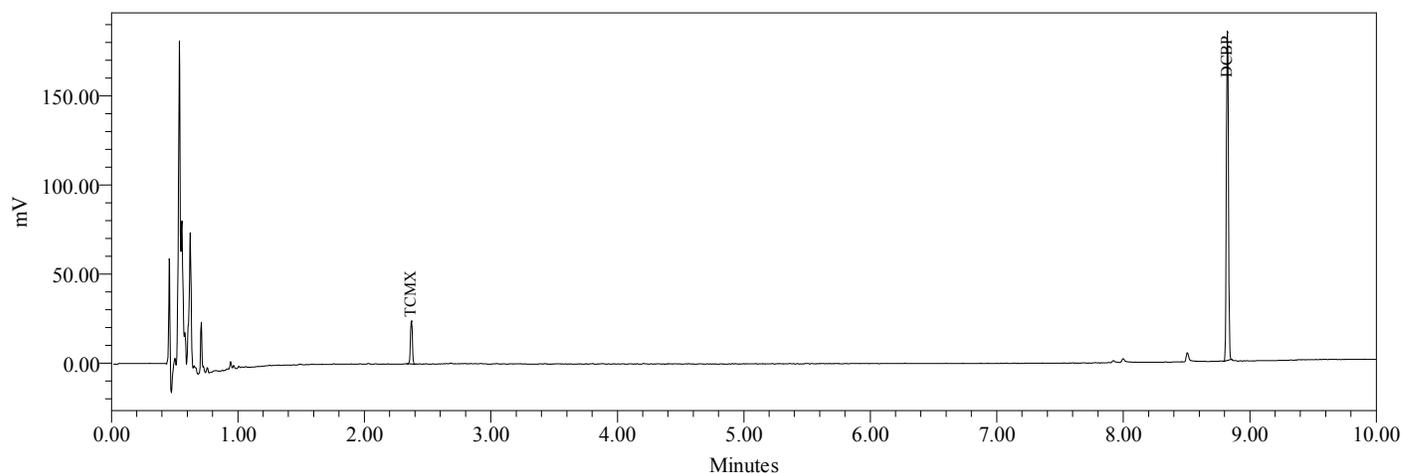
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Sample Name: 150605B06 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/5/2015 5:29:14 PM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/5/2015 5:45:12 PM EDT  
Sample Set Name: GC28F\_060515a User Name: Jonathan Stephan (JonathanS)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/5/2015  
Run Time: 10.0 Minutes Current Time: 11:20:03 PM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1634-16 [A]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.372          | BB               | 25639         | 5.260                | 105.20888 |           |
| 2 DCBP    | 8.824          | BB               | 209893        | 51.499               |           | 102.99752 |



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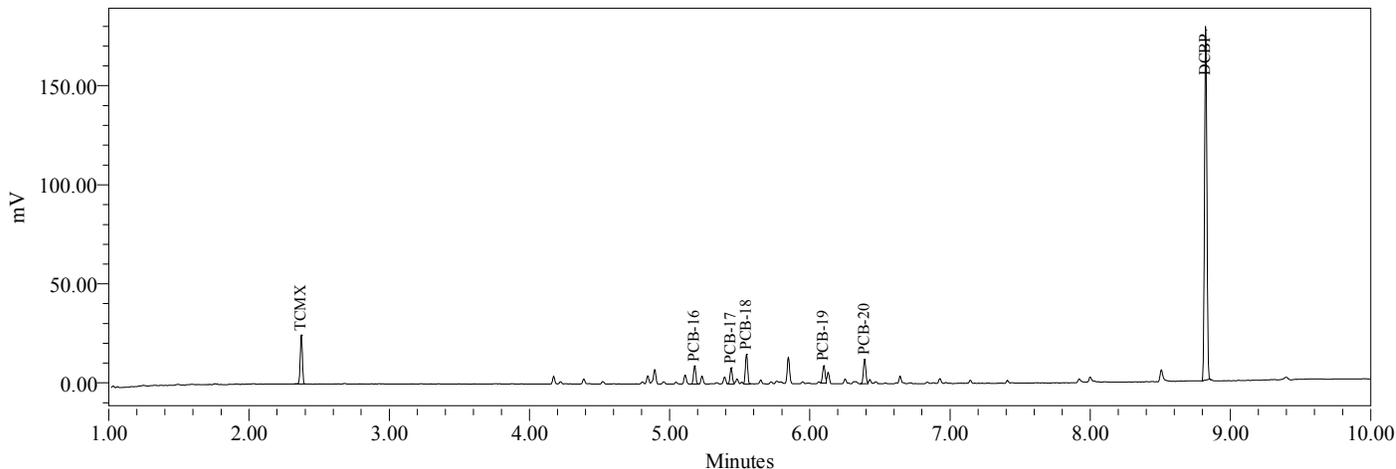
|                    |                         |                 |                              |
|--------------------|-------------------------|-----------------|------------------------------|
| Sample Name:       | CS540605A               | Sample Amount:  | 1                            |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                            |
| Date Acquired:     | 6/5/2015 7:46:25 PM EDT | Extract Volume: | 1                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/5/2015 9:22:09 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:      | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:   | 11:19:37 PM US/Eastern       |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1634-25 [A]            |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.373          | BB               | 26427         | 5.425                | 108.5       |             |
| 2 PCB-16  | 5.178          | BV               | 10454         |                      |             |             |
| 3 PCB-17  | 5.439          | VV               | 9133          |                      |             |             |
| 4 PCB-18  | 5.548          | VV               | 16833         |                      |             |             |
| 5 PCB-19  | 6.099          | BV               | 10639         |                      |             |             |
| 6 PCB-20  | 6.391          | BV               | 14529         |                      |             |             |
| 7 DCBP    | 8.824          | BB               | 205286        | 50.294               |             | 100.6       |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1254       | 61587               | 55.641               | 11.28               | X      |      |
| 2 A1254-17/18 | 35621               | 55.307               | 10.61               |        |      |
| 3 A1254-19/20 | 36419               | 56.199               | 12.40               |        |      |
| 4 A1254-20    | 47058               | 55.251               | 10.50               |        |      |
| 5 A1260       | 14529               | 11.797               | -76.41              |        |      |
| 6 A1260-23/24 | 14529               | 15.023               | -69.95              |        |      |
| 7 A1262       | 14529               | 10.752               | -78.50              |        |      |



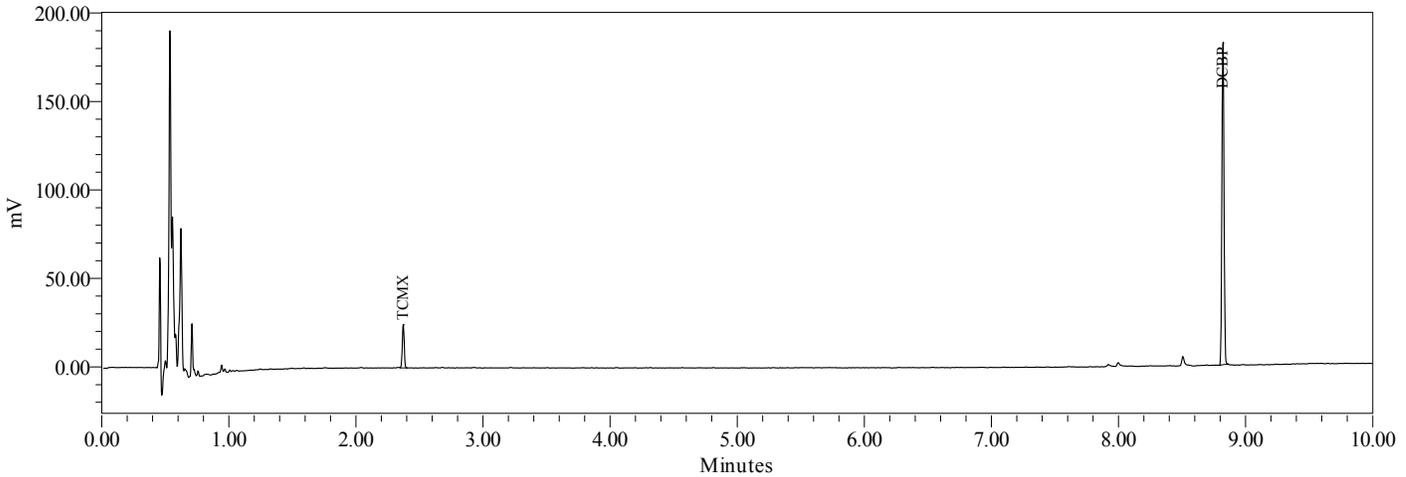
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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150605B07               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/5/2015 7:59:51 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:35:05 AM EDT |
| Sample Set Name:   | GC28F_060515b           | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:37:17 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1634-26 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.373          | vB               | 25866         | 5.308                | 106.15844 |           |
| 2 | DCBP      | 8.822          | BB               | 213962        | 52.563               |           | 105.12644 |



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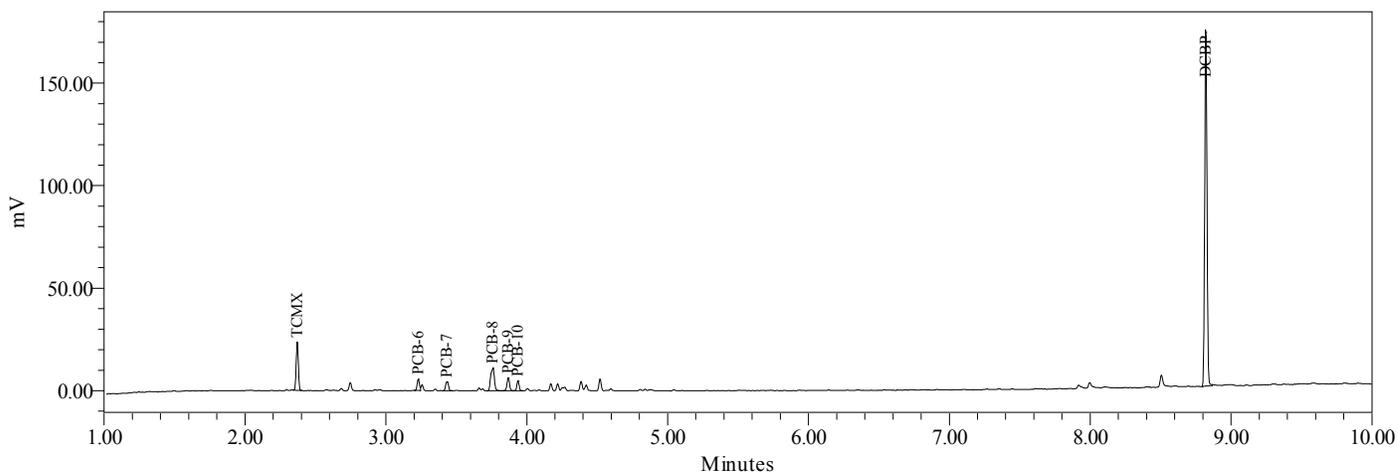
|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS160606A               | Sample Amount:  | 1                       |
| Sample ID:         | A1016 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 7:37:02 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 7:47:05 AM EDT |
| Sample Set Name:   | GC28F_CCV_060615        | User Name:      | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/9/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 4:02:53 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1635-2 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 24777         | 5.080                | 101.6       |             |
| 2 PCB-6   | 3.230          | bV               | 6221          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 5958          |                      |             |             |
| 4 PCB-8   | 3.759          | bB               | 20246         |                      |             |             |
| 5 PCB-9   | 3.869          | BB               | 8112          |                      |             |             |
| 6 PCB-10  | 3.938          | bb               | 5280          |                      |             |             |
| 7 DCBP    | 8.821          | bV               | 204692        | 50.138               |             | 100.3       |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 45816               | 54.318               | 8.64                | X      |      |
| 2 A 1232     | 39595               | 90.766               | 81.53               |        |      |
| 3 A 1232-8/9 | 11238               | 54.687               | 9.37                |        |      |
| 4 A 1242     | 45816               | 69.504               | 39.01               |        |      |

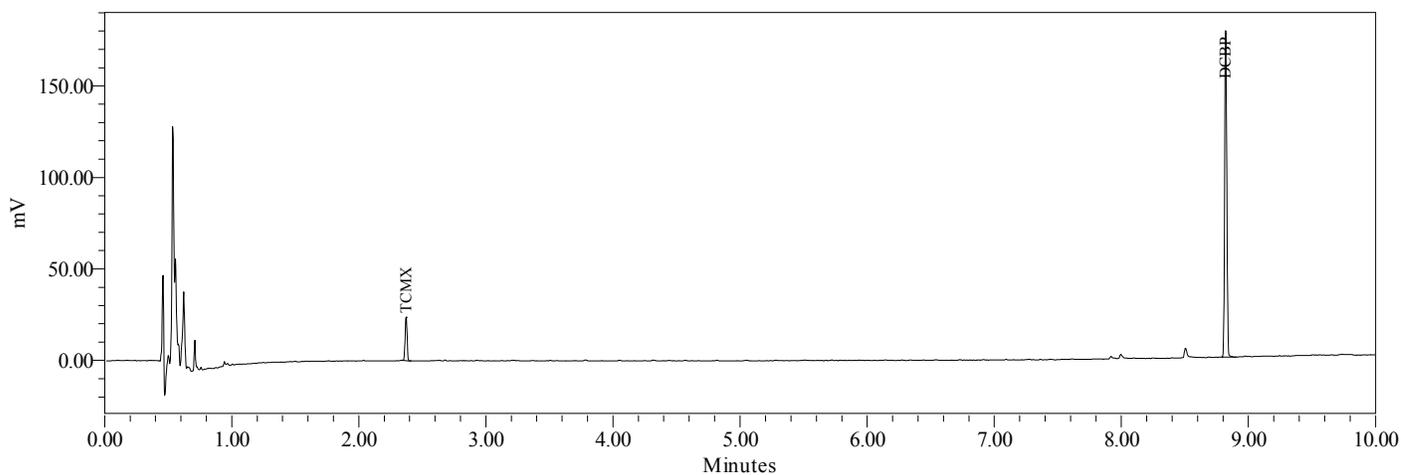


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150606B02               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 7:50:52 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 8:03:06 AM EDT |
| Sample Set Name:   | GC28F_CCV_060615        | User Name:      | Jared Acker (JaredA)    |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/9/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 4:04:00 PM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1635-3 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | bb               | 25045         | 5.136                | 102.71788 |           |
| 2 | DCBP      | 8.821          | bb               | 211737        | 51.981               |           | 103.96255 |



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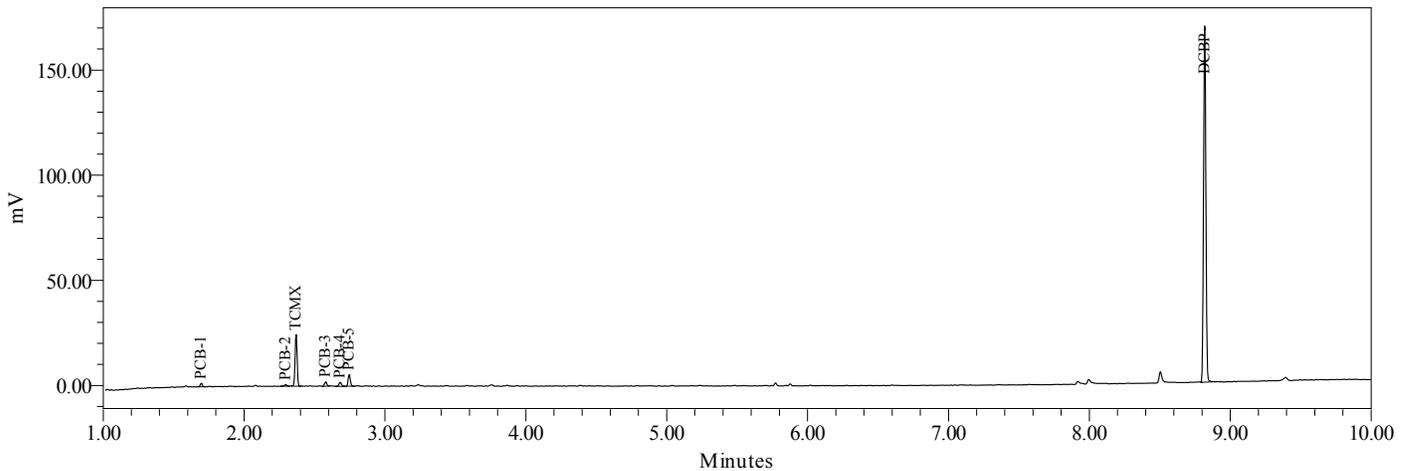
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS210606A               | Sample Amount:  | 1                       |
| Sample ID:         | A1221 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 8:56:32 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:17:09 AM EDT |
| Sample Set Name:   | GC28F_w_060615          | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:22:47 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1635-7 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.696          | bb               | 1531          |                      |             |             |
| 2 PCB-2   | 2.294          | bb               | 767           |                      |             |             |
| 3 TCMX    | 2.370          | bb               | 24860         | 5.097                | 101.9       |             |
| 4 PCB-3   | 2.579          | bb               | 2318          |                      |             |             |
| 5 PCB-4   | 2.682          | bV               | 2201          |                      |             |             |
| 6 PCB-5   | 2.746          | Vb               | 6003          |                      |             |             |
| 7 DCBP    | 8.819          | bb               | 198666        | 48.562               |             | 97.1        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 12820               | 51.005               | 2.01                | X      |      |
| 2 A 1221-2   | 12053               | 50.992               | 1.98                |        |      |
| 3 A 1221-5   | 6817                | 54.444               | 8.89                |        |      |
| 4 A 1232     | 6003                | 13.753               | -72.49              |        |      |
| 5 A 1232-8/9 | 6003                | 28.992               | -42.02              |        |      |

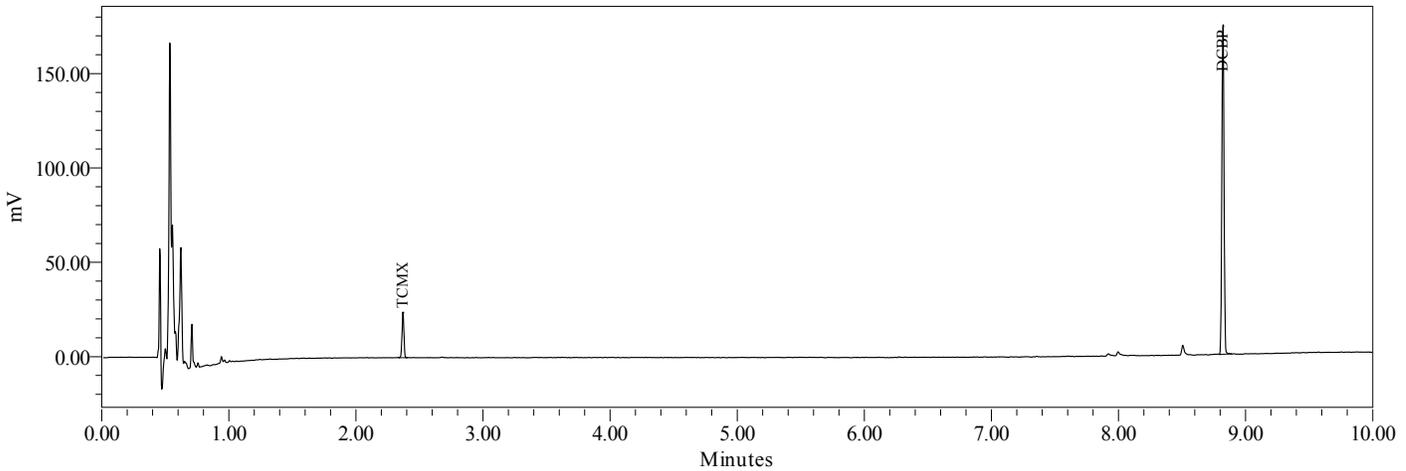


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150606B05               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/6/2015 9:10:23 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/6/2015 9:23:41 AM EDT |
| Sample Set Name:   | GC28F_w_060615          | User Name:      | Angela Racine (AngelaR) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/6/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 9:24:11 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1635-8 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.370          | bb               | 25185         | 5.165                | 103.30641 |           |
| 2 | DCBP      | 8.822          | bb               | 210100        | 51.553               |           | 103.10597 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060145</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-15</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS11966B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1634-17</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/05/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/05/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

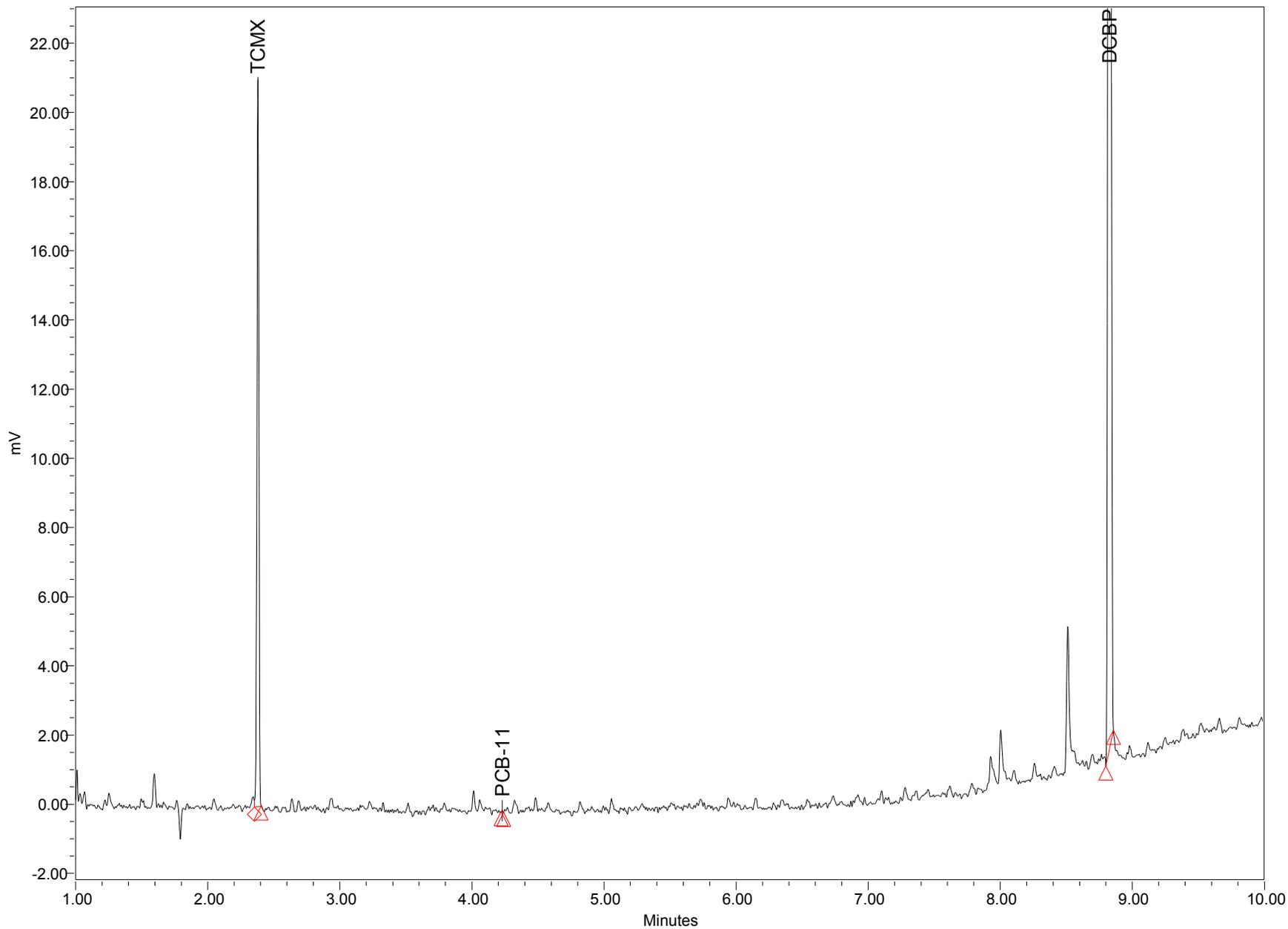
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11966B                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                            |
| Date Acquired:     | 6/5/2015 5:55:35 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/5/2015 9:00:50 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:18:43 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1634-17 [m]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.380          | VB               | 21864         | 4.470                | 89.4        |             |
| 2 | PCB-11    | 4.229          | bb               | 22            |                      |             |             |
| 3 | DCBP      | 8.827          | BB               | 214205        | 52.627               |             | 105         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1248       | 22.0237             |                      |             | 0.0250   | 0.00873  | NR     |      |
| 2 | A1248-14/15 | 22.0237             |                      |             | 0.0250   | 0.00873  | NR     |      |



SampleName AS11966B; Sample\_ID METHOD BLANK

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                          |
|-----------------------|---|------------------|--------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060145</u>          |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>LCS-15</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS11966L</u>          |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1634-18</u>     |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>                |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/05/2015</u>        |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/05/2015</u>        |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                 |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.244                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

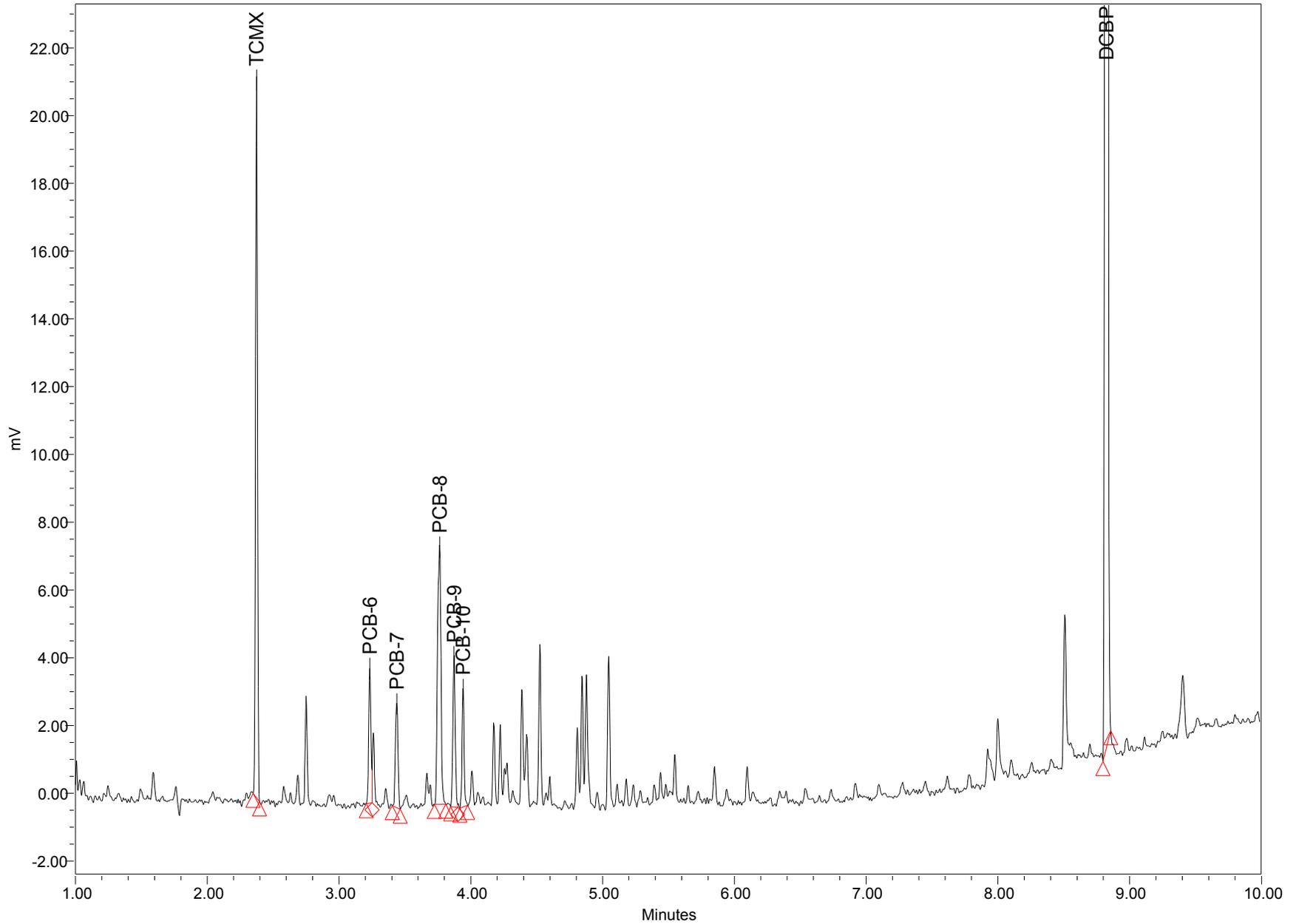
|                    |                         |                     |                              |
|--------------------|-------------------------|---------------------|------------------------------|
| Sample Name:       | AS11966L                | Sample Amount (L) : | 1.0000                       |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                            |
| Date Acquired:     | 6/5/2015 6:09:35 PM EDT | Extract Volume:     | 5                            |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/5/2015 9:01:13 PM EDT      |
| Sample Set Name:   | GC28F_060515b           | User Name:          | Jonathan Stephan (JonathanS) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/5/2015                     |
| Run Time:          | 10.0 Minutes            | Current Time:       | 11:18:49 PM US/Eastern       |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1634-18 [A]            |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.374          | BB               | 21857         | 4.468                | 89.4        |             |
| 2 | PCB-6     | 3.233          | BV               | 4525          |                      |             |             |
| 3 | PCB-7     | 3.438          | BB               | 4300          |                      |             |             |
| 4 | PCB-8     | 3.763          | BB               | 13857         |                      |             |             |
| 5 | PCB-9     | 3.873          | BV               | 5592          |                      |             |             |
| 6 | PCB-10    | 3.941          | BB               | 3928          |                      |             |             |
| 7 | DCBP      | 8.823          | BB               | 210465        | 51.648               |             | 103         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 32201.4684          | 38.123               | 0.19061     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 27676.9213          | 63.442               | 0.31721     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8227.4005           | 39.911               | 0.19955     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 32201.4684          | 48.797               | 0.24398     | 0.0250   | 0.00873  | X      |      |



SampleName AS11966L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



## Analytical Sample Results

Job Number: 15060145

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150605081249 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060145-01 (AS11966)     | <b>Percent Solid:</b> N/A                |

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1635-6 | NE273_04 (Quick TAT Aroclor Method) | 06/06/2015 08:42 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30951        | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 845 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0296 | 1.00            | U     | GC28F-1635-6 |
| Aroclor 1221          | 11104-28-2 | <b>0.224</b>  | 0.0296 | 1.00            | PB    | GC28F-1635-6 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0296 | 1.00            | U     | GC28F-1635-6 |
| Aroclor 1242          | 53469-21-9 | <b>0.0325</b> | 0.0296 | 1.00            | AD    | GC28F-1635-6 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0296 | 1.00            | U     | GC28F-1635-6 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0296 | 1.00            | U     | GC28F-1635-6 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0296 | 1.00            | U     | GC28F-1635-6 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2565</b> |        | 1.00            |       | GC28F-1635-6 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 92.4       | 70.0-130   |                | GC28F-1635-6 |
| Decachlorobiphenyl      | 2051-24-3 | 94.8       | 70.0-130   |                | GC28F-1635-6 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060145

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150605082114 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060145-02 (AS11967)     | <b>Percent Solid:</b> N/A                |

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1634-20 | NE273_04 (Quick TAT Aroclor Method) | 06/05/2015 18:37 | AMR     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30951         | EPA 3535A                           | 06/05/2015 12:47 | CYC     | 1070 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-20 |
| Aroclor 1221          | 11104-28-2 | <b>0.161</b>  | 0.0250 | 1.00            | PB    | GC28F-1634-20 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-20 |
| Aroclor 1242          | 53469-21-9 | <b>0.0461</b> | 0.0250 | 1.00            | AD    | GC28F-1634-20 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-20 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-20 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1634-20 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2071</b> |        | 1.00            |       | GC28F-1634-20 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 96.5       | 70.0-130   |                | GC28F-1634-20 |
| Decachlorobiphenyl      | 2051-24-3 | 98.2       | 70.0-130   |                | GC28F-1634-20 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060145

ELAP ID No: 11078

Duplicate Lab ID No: AS11966D

Date Analyzed: 06/05/2015

Original Lab ID No: AS11966

| TEST PARAMETER         | ORIGINAL SAMPLE<br>RESULT<br>(mg/L) | DUPLICATE SAMPLE<br>RESULT<br>(mg/L) | RELATIVE <sup>1</sup><br>PERCENT<br>DIFFERENCE (RPD) # |
|------------------------|-------------------------------------|--------------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 11.9                                | 20.9                                 | 55.0 *   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2114 Date In Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060415B9P11 Date Out Oven: 06/05/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29197   | BLANK-70       | AS10963B      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQZ        | 1000             | 0.1130         | 0.1130       | 0                 |                    |       |      |          |
| 29198   | LCS-70         | AS10963L      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR0        | 250              | 0.1119         | 0.1340       | 88.4              | 100                | 88.4  |      |          |
| 29195   | 15050566-01    | AS10963       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR1        | 80               | 0.1186         | 0.1350       | 205               |                    |       |      |          |
| 29196   | 15050566-02    | AS10964       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR2        | 400              | 0.1126         | 0.1178       | 13                |                    |       |      |          |
| 29199   | 15060010-01    | AS11265       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR3        | 980              | 0.1141         | 0.1229       | 8.98              |                    |       |      |          |
| 29200   | 15060010-02    | AS11266       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR4        | 1020             | 0.1263         | 0.1309       | 4.51              |                    |       |      |          |
| 29201   | 15060144-01    | AS11962       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WR5        | 900              | 0.1162         | 0.1182       | 2.22              |                    |       |      |          |
| 29202   | 15060144-02    | AS11963       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ4        | 1000             | 0.1102         | 0.1115       | 1.3               |                    |       |      |          |
| 29203   | 15060144-03    | AS11964       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ5        | 1050             | 0.1132         | 0.1196       | 6.1               |                    |       |      |          |
| 29204   | 15060144-04    | AS11965       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ6        | 980              | 0.1256         | 0.1267       | 1.12              |                    |       |      |          |
| 29205   | 15060145-01    | AS11966       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ7        | 960              | 0.1270         | 0.1384       | 11.9              |                    |       |      |          |
| 29207   | 15060145-01DUP | AS11966D      | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ9        | 900              | 0.1107         | 0.1295       | 20.9              |                    |       | 55.0 |          |
| 29206   | 15060145-02    | AS11967       | L      | <input checked="" type="checkbox"/> | 13:30        | 15:40         | WQ8        | 880              | 0.1180         | 0.1273       | 10.6              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/9/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060145

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150605081249 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060145-01 (AS11966)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 11.9          | 1.04 | 1.04            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060145

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150605082114 | <b>Received Date:</b> 06/05/2015 11:30   |
| <b>Lab Sample ID:</b> 15060145-02 (AS11967)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2114 | SM 2540D | 06/05/2015 13:30 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 10.6          | 1.14 | 1.14            |       | 2114    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 05, 2015

**Lab Report ID:** 15060190

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 11, 2015

CASE NARRATIVE

This data package (SDG ID: 15060190) consists of 3 water samples received on 6/7/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>         | <u>Collection Date</u> |
|----------------------|--------------------------|------------------------|
| AS12338              | NRS-162.90-T150605082250 | 6/5/2015 06:00         |
| AS12339              | NRS-186.00-T150605082344 | 6/5/2015 06:00         |
| AS12340              | NRS-187.70-T150605082422 | 6/5/2015 06:00         |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/7/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Method blank sample (LAB ID: AS12338B) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



385 West Grand Avenue Montvale, NJ 07645 PH: 201-930-9890

Client: General Electric Company

### ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150605131612PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID          | QA/QC | Matrix ** | Date Collected | Time Collected | Media* | # Containers | TEST REQUESTED         | METHOD   | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|--------------------------|-------|-----------|----------------|----------------|--------|--------------|------------------------|----------|----|-----|----|------------------------|--------------|
| 001               | NRS-162.90-T150605082250 | ENV   | W         | 06/05/2015     | 06:00          | W      | 3            | AS12338                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 002               | NRS-186.00-T150605082344 | ENV   | W         | 06/05/2015     | 06:00          | W      | 3            | AS12339                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |
| 003               | NRS-187.70-T150605082422 | ENV   | W         | 06/05/2015     | 06:00          | W      | 3            | AS12340                |          |    |     |    |                        |              |
|                   |                          |       |           |                |                |        |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 72                     | 4degC        |
|                   |                          |       |           |                |                |        |              | Aroclor Water          | NE273_04 | N  | N   | N  | 72                     | 4degC        |

3

|                                    |            |              |            |                  |            |              |            |
|------------------------------------|------------|--------------|------------|------------------|------------|--------------|------------|
| Comments: Temp: 3.0°C COC Seal (4) |            |              |            |                  |            |              |            |
| Relinquished by:                   |            | Received by: |            | Relinquished by: |            | Received by: |            |
| Signature                          | Signature  | Signature    | Signature  | Signature        | Signature  | Signature    | Signature  |
| Print Name                         | Print Name | Print Name   | Print Name | Print Name       | Print Name | Print Name   | Print Name |
| Company                            | Company    | Company      | Company    | Company          | Company    | Company      | Company    |
| Date/Time                          | Date/Time  | Date/Time    | Date/Time  | Date/Time        | Date/Time  | Date/Time    | Date/Time  |

Date Printed: 6/5/2015

\* S = SEDIMENT, W = WATER, PW = PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



150601902

**Sample Condition Upon Receipt**

CLIENT NAME: GE

PROJECT: HR Ramp

COURIER: FedEx  UPS  Client  Pace  Other

TRACKING # NA CUSTODY SEAL PRESENT: Yes  No  INTACT: Yes  No  N/A

PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other  ICE USED: Wet  Blue  None

THERMOMETER USED: #164  IR Gun 03  #122087967  COOLER TEMPERATURE (°C): 3.0

BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A  Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |
|--|---|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 1.                                      |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 2.                                      |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 3.                                      |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 4.                                      |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 5.                                      |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6.                                      |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 7. <u>2 hours</u>                       |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 8.                                      |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 9.                                      |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 10.                                     |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12.                                     |
| - Includes date/time/ID/Analysis   |   |  |   |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| - Exceptions that are not checked: VOA   |   |  |   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |
| Pace Trip Blank Lot #: <u>NA</u>   |   |  |   |
|  |   | Initial when completed: <u>NA</u>      | Lot # of added preservative: <u>NA</u>  |

Sample Receipt form filled in: NA 6/7/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): NA 6/7/15  
 Log In (Includes notifying PM of any discrepancies and documenting in LIMS): NA 6/7/15  
 Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): NA 6/7/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060190

**Pace Analytical Services, Inc.**  
2190 Technology Drive  
Schenectady, NY 12308  
Phone: 518.346.4592  
Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRP:** 15060190  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRP TAT:** \*72 HOUR\*

**RECEIVED DATE:** 06/07/2015 14:00  
**SHIPPED VIA:** PICK UP  
**SHIPPING ID:**  
**NUMBER OF COOLERS:** 1  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** 5.0 °C  
**SAMPLE SEALS INTACT:** NA  
**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SAMPLES REC'D IN HOLDTIME:** YES  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

### COMMENTS:

| CLIENT ID (LAB ID)                 | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|------------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| NRS-162.90-T150605082250 (AS12338) | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-186.00-T150605082344 (AS12339) | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| NRS-187.70-T150605082422 (AS12340) | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                    | *72 HOUR* 06-10-15        | 06/05/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

- <sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
- <sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
- <sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
- <sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
- <sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
- <sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/08/15

Batch ID: 30979

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH             | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|----------------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |                |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 308031        | PBLK-43       | AS12338B | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 2       | 308030        | LCS-43        | AS12338L | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 3       | 308011        | 15060190-01   | AS12338  | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 1070                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 4       | 308012        | 15060190-02   | AS12339  | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 980                 | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 5       | 308013        | 15060190-03   | AS12340  | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 1020                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 6       | 308028        | 15060135-01   | AS11914  | Drinking Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 7       | 308029        | 15060136-01   | AS11915  | Water          | 5                 | E PCB W             | SPE-1L               | N/A                     | 1080                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review:

*Kaitlyn Nedo*

Kaitlyn Nedo

Peer Review:

*Elizabeth Ramkirpaul*

Elizabeth Ramkirpaul

Print Date: 6/11/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060190**

**Batch ID: 30979**

| Lab Sample ID | File ID       | Matrix         | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|----------------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS12338BRR1   | GC28F-1637-27 | Water          | 06/08/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12338L      | GC28F-1637-17 | Water          | 06/08/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12338       | GC28F-1637-18 | Water          | 06/08/15  | 1070                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12339       | GC28F-1637-19 | Water          | 06/08/15  | 980                  | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12340       | GC28F-1637-20 | Water          | 06/08/15  | 1020                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS11914RR1    | GC28F-1637-28 | Drinking Water | 06/08/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS11915RR1    | GC28F-1637-29 | Water          | 06/08/15  | 1080                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |

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**COMMENTS:** \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1  
PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060190

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID      | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|-------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-43RR1  | AS12338BRR1   | GC28F-1637-27 | 90.1                   | 104                    |           |           | 0         |
| LCS-43      | AS12338L      | GC28F-1637-17 | 83.8                   | 102                    |           |           | 0         |
| 15060190-01 | AS12338       | GC28F-1637-18 | 90.3                   | 86.4                   |           |           | 0         |
| 15060190-02 | AS12339       | GC28F-1637-19 | 93.6                   | 92.3                   |           |           | 0         |
| 15060190-03 | AS12340       | GC28F-1637-20 | 91.4                   | 90.5                   |           |           | 0         |

6

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060190</u>                           |
| LCS Lab ID: <u>LCS-43</u>                | Blank Sample ID: <u>PBLK-43RR1</u>                |
| LCS File ID: <u>GC28F-1637-17</u>        | Method Blank File ID: <u>GC28F-1637-27</u>        |
| LCS Inj Date: <u>06/08/2015 13:05:35</u> | Method Blank Inj Date: <u>06/08/2015 16:02:27</u> |
| LCS ID: <u>AS12338L</u>                  | Method Blank ID: <u>AS12338BRR1</u>               |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE<br>ADDED<br>(ug/L) | LCS<br>CONCENTRATION<br>(ug/L) | LCS<br>PERCENT<br>RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT<br>RECOVERY |
|--------------|--------------------------|--------------------------------|------------------------------|---|
| Aroclor 1242 | 0.250                    | 0.235                          | 93.8                         | 70.0-130                                      |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1  
PCB METHOD BLANK SUMMARY**

|  |                                     |
|--|-------------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060190</u>             |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-43RR1</u>  |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS12338BRR1</u> |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1637-27</u>   |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/08/2015</u>   |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/08/2015</u>    |
|  | Time Analyzed: <u>16:02:27</u>      |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-43(LAB CONTROL SPIKE) | AS12338L         | GC28F-1637-17  | 06/08/2015 13:05:35     |
| NRS-162.90-T150605082250  | AS12338          | GC28F-1637-18  | 06/08/2015 13:19:33     |
| NRS-186.00-T150605082344  | AS12339          | GC28F-1637-19  | 06/08/2015 13:33:26     |
| NRS-187.70-T150605082422  | AS12340          | GC28F-1637-20  | 06/08/2015 13:47:13     |

# SAMPLE ANALYSIS DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060190</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060190-01</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-162.90-T150605082250</u> |
| Sample wt(Dry)/vol: <u>1070 mL</u>                                     | Lab Sample ID: <u>AS12338</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-18</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/07/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/08/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.113                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0228                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.  
 PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.  
 J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.  
 U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS12338                  | Sample Amount (L) : | 1.0700                  |
| Sample ID:         | NRS-162.90-T150605082250 | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 1:19:33 PM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/8/2015 5:02:20 PM EDT |
| Sample Set Name:   | GC28F_060815d            | User Name:          | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 5:59:46 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L       | LIMS File ID:       | GC28F-1637-18 [m]       |

**Peak Results**

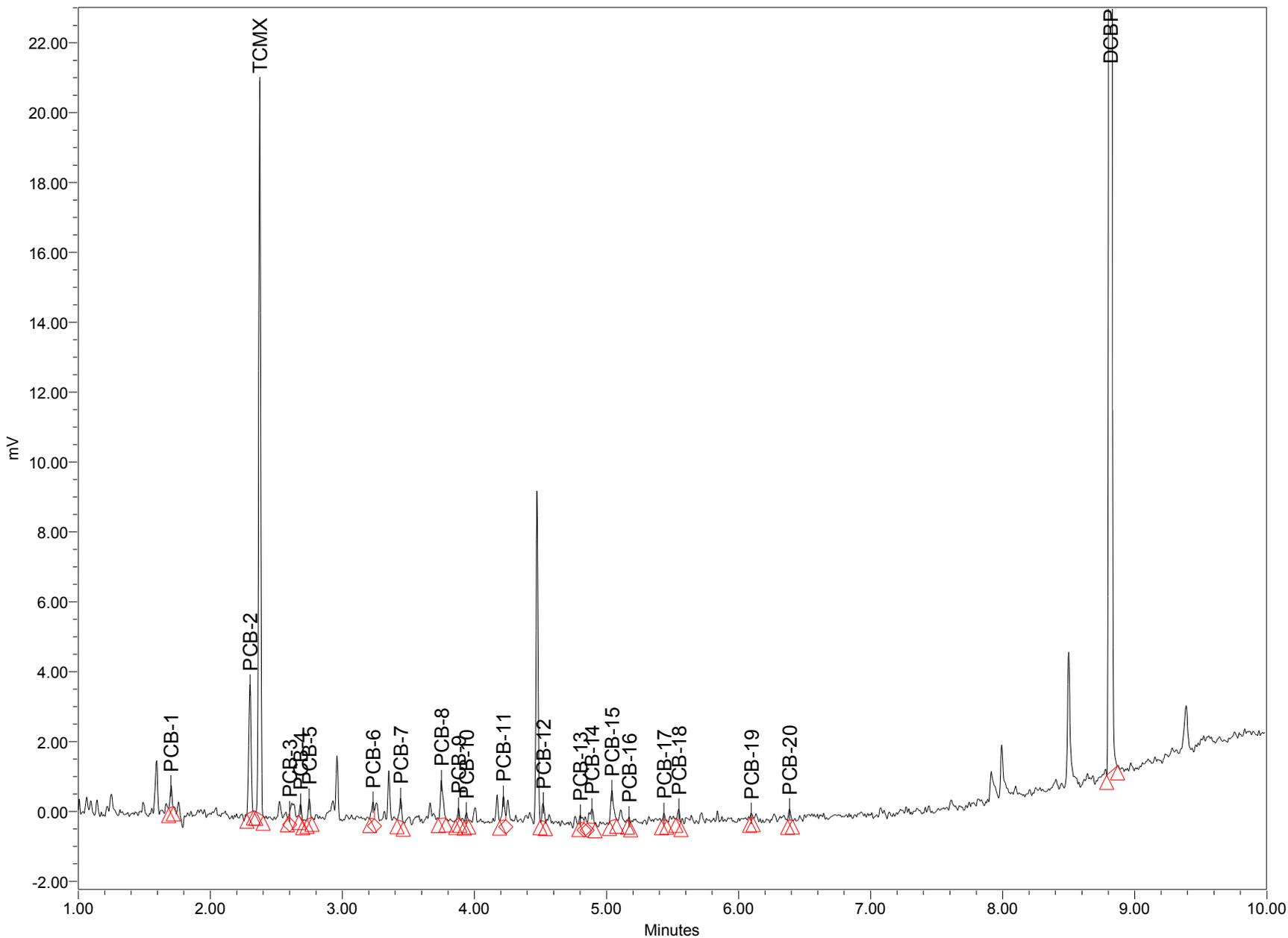
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.703          | bb               | 550           |                      |             |             |
| 2  | PCB-2     | 2.300          | bb               | 4536          |                      |             |             |
| 3  | TCMX      | 2.374          | bb               | 22079         | 4.515                | 90.3        |             |
| 4  | PCB-3     | 2.600          | bv               | 54            |                      |             |             |
| 5  | PCB-4     | 2.684          | bb               | 382           |                      |             |             |
| 6  | PCB-5     | 2.749          | bb               | 531           |                      |             |             |
| 7  | PCB-6     | 3.232          | bV               | 603           |                      |             |             |
| 8  | PCB-7     | 3.441          | bb               | 741           |                      |             |             |
| 9  | PCB-8     | 3.750          | bb               | 1505          |                      |             |             |
| 10 | PCB-9     | 3.880          | bb               | 246           |                      |             |             |
| 11 | PCB-10    | 3.939          | bb               | 224           |                      |             |             |
| 12 | PCB-11    | 4.220          | bV               | 825           |                      |             |             |
| 13 | PCB-12    | 4.520          | bb               | 587           |                      |             |             |
| 14 | PCB-13    | 4.802          | bV               | 322           |                      |             |             |
| 15 | PCB-14    | 4.890          | Vb               | 834           |                      |             |             |
| 16 | PCB-15    | 5.041          | bb               | 1232          |                      |             |             |
| 17 | PCB-16    | 5.171          | bb               | 87            |                      |             |             |
| 18 | PCB-17    | 5.436          | bb               | 178           |                      |             |             |
| 19 | PCB-18    | 5.547          | bb               | 338           |                      |             |             |
| 20 | PCB-19    | 6.096          | bb               | 120           |                      |             |             |
| 21 | PCB-20    | 6.386          | bb               | 349           |                      |             |             |
| 22 | DCBP      | 8.816          | bb               | 178184        | 43.204               |             | 86.4        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 3320.7087           | 3.770                | 0.01761     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221      | 6052.2747           | 24.114               | 0.11268     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2    | 1516.4330           | 6.956                | 0.03250     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5    | 5521.5582           | 44.180               | 0.20645     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 5  | A1232       | 3248.0120           | 7.436               | 0.03475     | 0.0250   | 0.00873  | NR     |      |
| 6  | A1232-8/9   | 1496.1969           | 6.869               | 0.03210     | 0.0250   | 0.00873  | NR     |      |
| 7  | A1242       | 3320.7087           | 4.872               | 0.02277     | 0.0250   | 0.00873  | X      | AD,J |
| 8  | A1248       | 3801.4889           | 4.624               | 0.02161     | 0.0250   | 0.00873  | NR     |      |
| 9  | A1248-11/15 | 1743.7028           | 3.607               | 0.01686     | 0.0250   | 0.00873  | NR     |      |
| 10 | A1248-14/15 | 1734.5862           | 4.546               | 0.02124     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254       | 1072.4144           | 1.235               | 0.00577     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1254-17/18 | 555.7064            | 1.204               | 0.00563     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1254-19/20 | 603.5508            | 1.103               | 0.00515     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1254-20    | 723.5074            | 1.170               | 0.00547     | 0.0250   | 0.00873  | NR     |      |
| 15 | A1260       | 348.9070            | 0.171               | 0.00080     | 0.0250   | 0.00873  | NR     |      |
| 16 | A1260-23/24 | 348.9070            | 0.795               | 0.00372     | 0.0250   | 0.00873  | NR     |      |
| 17 | A1262       | 348.9070            |                     |             |          |          | NR     |      |



SampleName AS12338; Sample\_ID NRS-162.90-T150605082250



|                    |                          |                      |                     |
|--------------------|--------------------------|----------------------|---------------------|
| Lab ID:            | AS12338                  | Current Date Time:   | 6/11/2015 17:18:09  |
| Sample ID:         | NRS-162.90-T150605082250 | LIMS File ID:        | GC28F-1637-18       |
| Matrix:            | Water                    | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/8/2015 1:19:33 PM      | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215        |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{6052.274739 - -16.185578}{251.658479} = 24.1139 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{24.1139 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1070 \text{ mL}} = 0.113 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060190</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060190-02</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-186.00-T150605082344</u> |
| Sample wt(Dry)/vol: <u>980 mL</u>                                      | Lab Sample ID: <u>AS12339</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-19</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/07/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/08/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0255                | U    |
| 11104-28-2 | Aroclor 1221  | 0.0644                | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0255                | U    |
| 53469-21-9 | Aroclor 1242  | 0.00946               | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0255                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0255                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0255                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS12339                  | Sample Amount (L) : | 0.9800                  |
| Sample ID:         | NRS-186.00-T150605082344 | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 1:33:26 PM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/8/2015 5:03:19 PM EDT |
| Sample Set Name:   | GC28F_060815d            | User Name:          | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 5:59:59 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1637-19 [m]       |

**Peak Results**

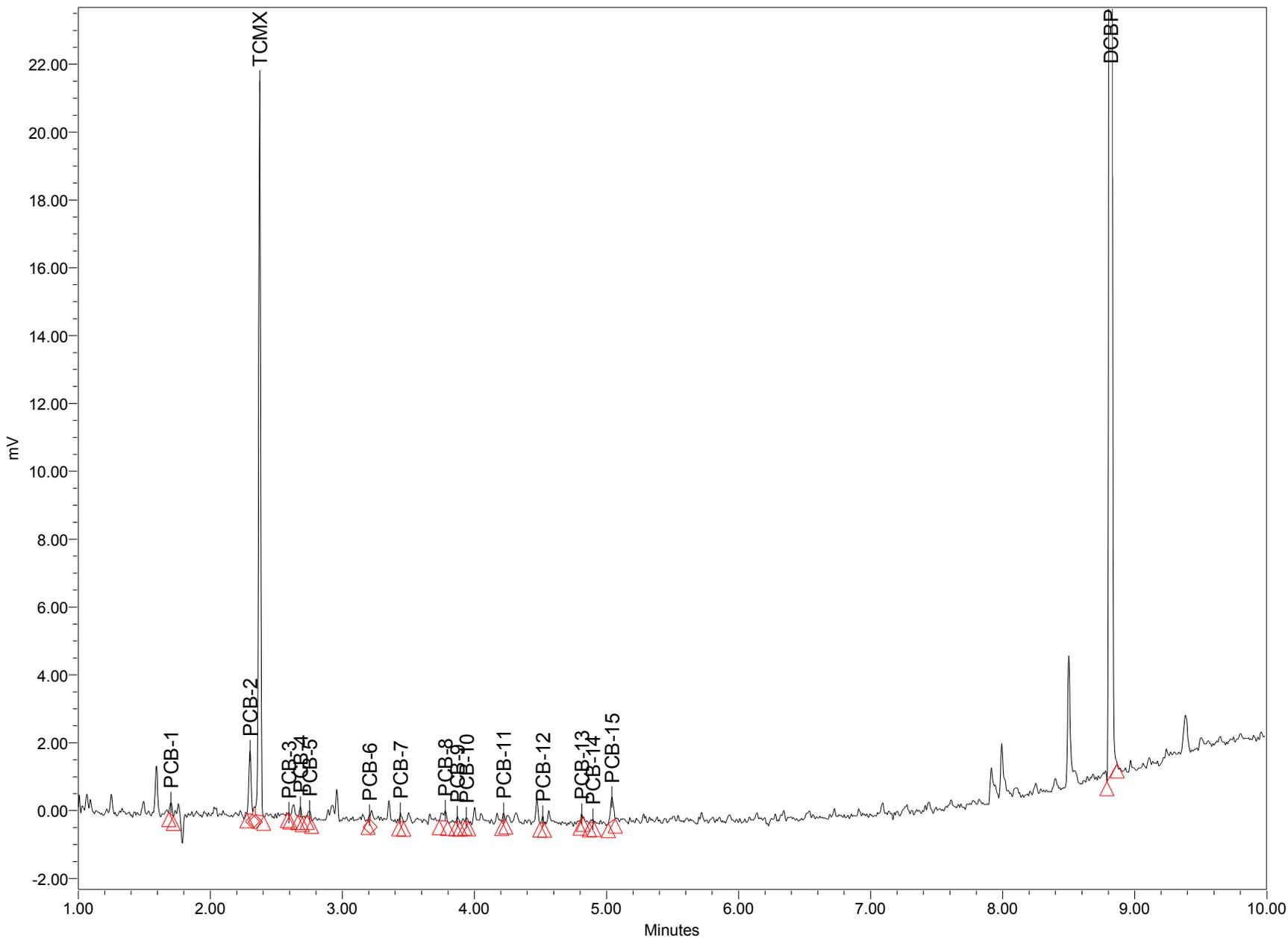
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.702          | bb               | 396           |                      |             |             |
| 2  | PCB-2     | 2.300          | bV               | 2231          |                      |             |             |
| 3  | TCMX      | 2.373          | Vb               | 22873         | 4.681                | 93.6        |             |
| 4  | PCB-3     | 2.595          | bb               | 27            |                      |             |             |
| 5  | PCB-4     | 2.682          | bb               | 265           |                      |             |             |
| 6  | PCB-5     | 2.752          | bb               | 243           |                      |             |             |
| 7  | PCB-6     | 3.205          | bV               | 102           |                      |             |             |
| 8  | PCB-7     | 3.439          | bb               | 278           |                      |             |             |
| 9  | PCB-8     | 3.779          | bb               | 683           |                      |             |             |
| 10 | PCB-9     | 3.871          | bb               | 151           |                      |             |             |
| 11 | PCB-10    | 3.939          | bb               | 122           |                      |             |             |
| 12 | PCB-11    | 4.220          | bb               | 206           |                      |             |             |
| 13 | PCB-12    | 4.517          | bb               | 160           |                      |             |             |
| 14 | PCB-13    | 4.812          | bb               | 98            |                      |             |             |
| 15 | PCB-14    | 4.897          | bb               | 117           |                      |             |             |
| 16 | PCB-15    | 5.040          | bb               | 1096          |                      |             |             |
| 17 | DCBP      | 8.817          | bb               | 189372        | 46.131               |             | 92.3        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 1336.2362           | 1.409                | 0.00719     | 0.0255   | 0.00891  | NR     |      |
| 2 | A1221       | 3162.0471           | 12.629               | 0.06443     | 0.0255   | 0.00891  | X      | PB   |
| 3 | A1221-2     | 930.5796            | 4.507                | 0.02300     | 0.0255   | 0.00891  | NR     |      |
| 4 | A1221-5     | 2919.4191           | 23.557               | 0.12019     | 0.0255   | 0.00891  | NR     |      |
| 5 | A1232       | 1477.0068           | 3.376                | 0.01723     | 0.0255   | 0.00891  | NR     |      |
| 6 | A1232-8/9   | 642.5460            | 2.679                | 0.01367     | 0.0255   | 0.00891  | NR     |      |
| 7 | A1242       | 1336.2362           | 1.854                | 0.00946     | 0.0255   | 0.00891  | X      | AD,J |
| 8 | A1248       | 1676.5266           | 1.748                | 0.00892     | 0.0255   | 0.00891  | NR     |      |
| 9 | A1248-11/15 | 374.7091            | 0.759                | 0.00387     | 0.0255   | 0.00891  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 463.3436            | 0.975                | 0.00497     | 0.0255   | 0.00891  | NR     |      |



SampleName AS12339; Sample\_ID NRS-186.00-T150605082344

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060190</u>                    |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060190-03</u>                 |
| Matrix: <u>Water</u>   | Client ID: <u>NRS-187.70-T150605082422</u> |
| Sample wt(Dry)/vol: <u>1020 mL</u>                                     | Lab Sample ID: <u>AS12340</u>              |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-20</u>          |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/07/2015</u>           |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/08/2015</u>          |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>           |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                  |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>                 |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.0265                | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U  |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                         |
|--------------------|--------------------------|---------------------|-------------------------|
| Sample Name:       | AS12340                  | Sample Amount (L) : | 1.0200                  |
| Sample ID:         | NRS-187.70-T150605082422 | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 1:47:13 PM EDT  | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/8/2015 5:04:05 PM EDT |
| Sample Set Name:   | GC28F_060815d            | User Name:          | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:       | 6:00:12 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ug/L       | LIMS File ID:       | GC28F-1637-20 [m]       |

**Peak Results**

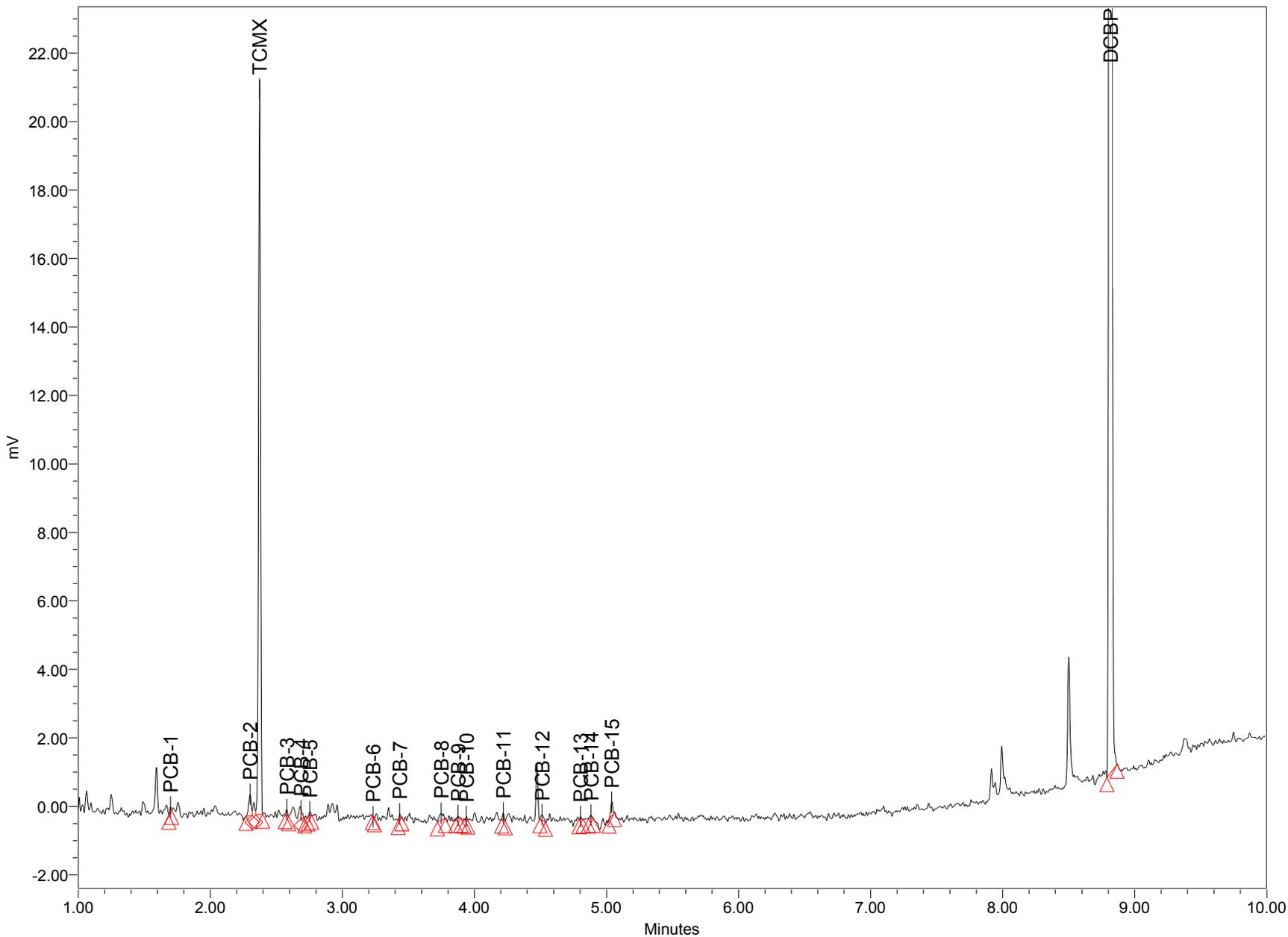
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.698          | bb               | 94            |                      |             |             |
| 2  | PCB-2     | 2.301          | bV               | 824           |                      |             |             |
| 3  | TCMX      | 2.373          | Vb               | 22331         | 4.568                | 91.4        |             |
| 4  | PCB-3     | 2.578          | bb               | 139           |                      |             |             |
| 5  | PCB-4     | 2.687          | vb               | 176           |                      |             |             |
| 6  | PCB-5     | 2.754          | bb               | 111           |                      |             |             |
| 7  | PCB-6     | 3.231          | bb               | 8             |                      |             |             |
| 8  | PCB-7     | 3.434          | bb               | 102           |                      |             |             |
| 9  | PCB-8     | 3.748          | bb               | 434           |                      |             |             |
| 10 | PCB-9     | 3.877          | bb               | 72            |                      |             |             |
| 11 | PCB-10    | 3.939          | bb               | 68            |                      |             |             |
| 12 | PCB-11    | 4.219          | bb               | 154           |                      |             |             |
| 13 | PCB-12    | 4.513          | bb               | 224           |                      |             |             |
| 14 | PCB-13    | 4.804          | bb               | 62            |                      |             |             |
| 15 | PCB-14    | 4.883          | bb               | 117           |                      |             |             |
| 16 | PCB-15    | 5.039          | bb               | 454           |                      |             |             |
| 17 | DCBP      | 8.816          | bb               | 185920        | 45.228               |             | 90.5        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 682.8339            | 0.632                | 0.00310     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 1345.3949           | 5.410                | 0.02652     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 520.9317            | 2.795                | 0.01370     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 1234.1226           | 10.201               | 0.05001     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 786.5711            | 1.793                | 0.00879     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 281.1884            | 0.905                | 0.00444     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 682.8339            | 0.860                | 0.00422     | 0.0250   | 0.00873  | NR     |      |
| 8 | A1248       | 1011.2390           | 0.848                | 0.00416     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1248-11/15 | 403.1694            | 0.818                | 0.00401     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 10 | A1248-14/15 | 440.3618            | 0.910                | 0.00446     | 0.0250   | 0.00873  | NR     |      |



SampleName AS12340; Sample\_ID NRS-187.70-T150605082422

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060190

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
| TCMX RT: <u>2.38</u>   |               |             | DCBP RT: <u>8.83</u> |                            |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/11/2015  
Lims Version : 5.0.8.9

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060190

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |                           |             |                      |                            |                            |      |
|--|---------------------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |                           |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID             | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 39   | A1262 50 PPB              | 031262D     | GC28F-1565-41        | 03/12/2015 22:44:17        | 2.38                       | 8.83 |
| 40   | A1262 100 PPB             | 031262E     | GC28F-1565-42        | 03/12/2015 22:58:33        | 2.38                       | 8.83 |
| 41   | A1268 5 PPB               | 031268A     | GC28F-1565-43        | 03/12/2015 23:12:19        | 2.38                       | 8.83 |
| 42   | A1268 10 PPB              | 031268B     | GC28F-1565-44        | 03/12/2015 23:26:09        | 2.38                       | 8.83 |
| 43   | A1268 20 PPB              | 031268C     | GC28F-1565-45        | 03/12/2015 23:40:16        | 2.38                       | 8.83 |
| 44   | A1268 50 PPB              | 031268D     | GC28F-1565-46        | 03/12/2015 23:54:28        | 2.38                       | 8.83 |
| 45   | A1268 100 PPB             | 031268E     | GC28F-1565-47        | 03/13/2015 00:08:35        | 2.38                       | 8.83 |
| 46   | A1016 50 PPB              | CS160312A   | GC28F-1565-49        | 03/13/2015 00:36:30        | 2.38                       | 8.83 |
| 47   | A1221 50 PPB              | CS210312A   | GC28F-1565-50        | 03/13/2015 00:50:17        | 2.38                       | 8.83 |
| 48   | A1232 50 PPB              | CS320312A   | GC28F-1565-51        | 03/13/2015 01:04:04        | 2.38                       | 8.83 |
| 49   | A1242 50 PPB              | CS420312A   | GC28F-1565-52        | 03/13/2015 01:17:52        | 2.38                       | 8.83 |
| 50   | A1248 50 PPB              | CS480312A   | GC28F-1565-53        | 03/13/2015 01:31:59        | 2.38                       | 8.83 |
| 51   | A1254 50 PPB              | CS540312A   | GC28F-1565-54        | 03/13/2015 01:45:56        | 2.38                       | 8.83 |
| 52   | A1260 50 PPB              | CS600312A   | GC28F-1565-55        | 03/13/2015 01:59:41        | 2.38                       | 8.83 |
| 53   | A1262 50 PPB              | CS620312A   | GC28F-1565-56        | 03/13/2015 02:13:43        | 2.38                       | 8.83 |
| 54   | A1268 50 PPB              | CS680312A   | GC28F-1565-57        | 03/13/2015 02:27:53        | 2.38                       | 8.83 |
| 55   | HEXANE BLANK-SURR         | 150312B04   | GC28F-1565-58        | 03/13/2015 02:41:55        | 2.38                       | 8.83 |
| 56   | A1248 50 PPB              | CS480608A   | GC28F-1637-14        | 06/08/2015 11:34:22        | 2.37                       | 8.82 |
| 57   | HEXANE BLANK-SURR         | 150608B05   | GC28F-1637-15        | 06/08/2015 11:48:28        | 2.37                       | 8.82 |
| 58   | LCS-43(LAB CONTROL SPIKE) | AS12338L    | GC28F-1637-17        | 06/08/2015 13:05:35        | 2.37                       | 8.82 |
| 59   | NRS-162.90-T150605082250  | AS12338     | GC28F-1637-18        | 06/08/2015 13:19:33        | 2.37                       | 8.82 |
| 60   | NRS-186.00-T150605082344  | AS12339     | GC28F-1637-19        | 06/08/2015 13:33:26        | 2.37                       | 8.82 |
| 61   | NRS-187.70-T150605082422  | AS12340     | GC28F-1637-20        | 06/08/2015 13:47:13        | 2.37                       | 8.82 |
| 62   | A1254 50 PPB              | CS540608A   | GC28F-1637-23        | 06/08/2015 14:28:27        | 2.37                       | 8.82 |
| 63   | HEXANE BLANK-SURR         | 150608B06   | GC28F-1637-24        | 06/08/2015 14:42:20        | 2.37                       | 8.82 |
| 64   | PBLK-43(METHOD BLANK)     | AS12338BRR1 | GC28F-1637-27        | 06/08/2015 16:02:27        | 2.37                       | 8.82 |
| 65   | ZZZZZ                     | ZZZZZ       | GC28F-1637-28        | 06/08/2015 16:16:19        | 2.37                       | 8.82 |
| 66   | ZZZZZ                     | ZZZZZ       | GC28F-1637-29        | 06/08/2015 16:30:11        | 2.37                       | 8.82 |
| 67   | ZZZZZ                     | ZZZZZ       | GC28F-1637-30        | 06/08/2015 16:44:04        | 2.37                       | 8.82 |
| 68   | ZZZZZ                     | ZZZZZ       | GC28F-1637-31        | 06/08/2015 16:57:52        | 2.37                       | 8.82 |
| 69   | ZZZZZ                     | ZZZZZ       | GC28F-1637-32        | 06/08/2015 17:11:45        | 2.37                       | 8.82 |
| 70   | ZZZZZ                     | ZZZZZ       | GC28F-1637-33        | 06/08/2015 17:25:32        | 2.37                       | 8.82 |
| 71   | A1260 50 PPB              | CS600608A   | GC28F-1637-34        | 06/08/2015 17:39:07        | 2.37                       | 8.82 |
| 72   | HEXANE BLANK-SURR         | 150608B09   | GC28F-1637-35        | 06/08/2015 17:53:06        | 2.37                       | 8.82 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/11/2015  
Lims Version : 5.0.8.9

# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060190

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/11/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060190

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

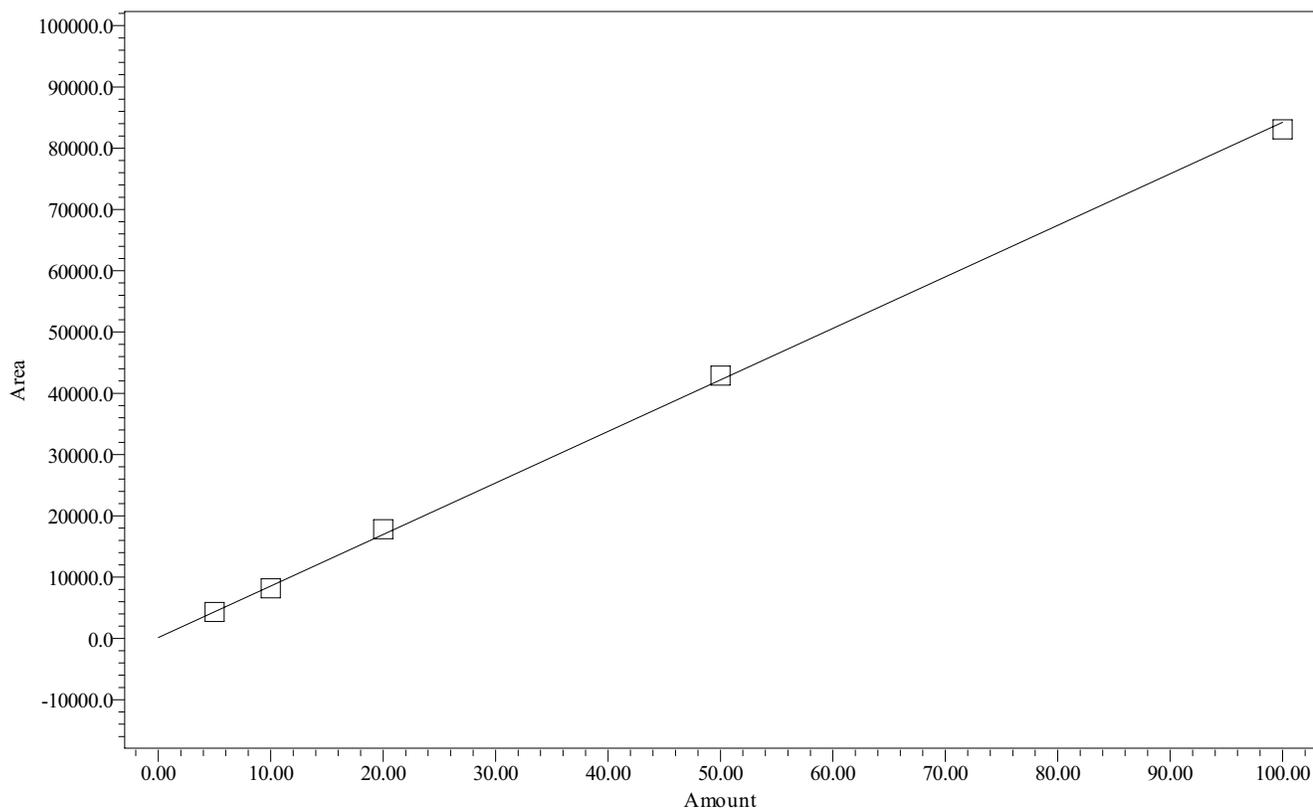
**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1016                    | Coefficient constant A:           | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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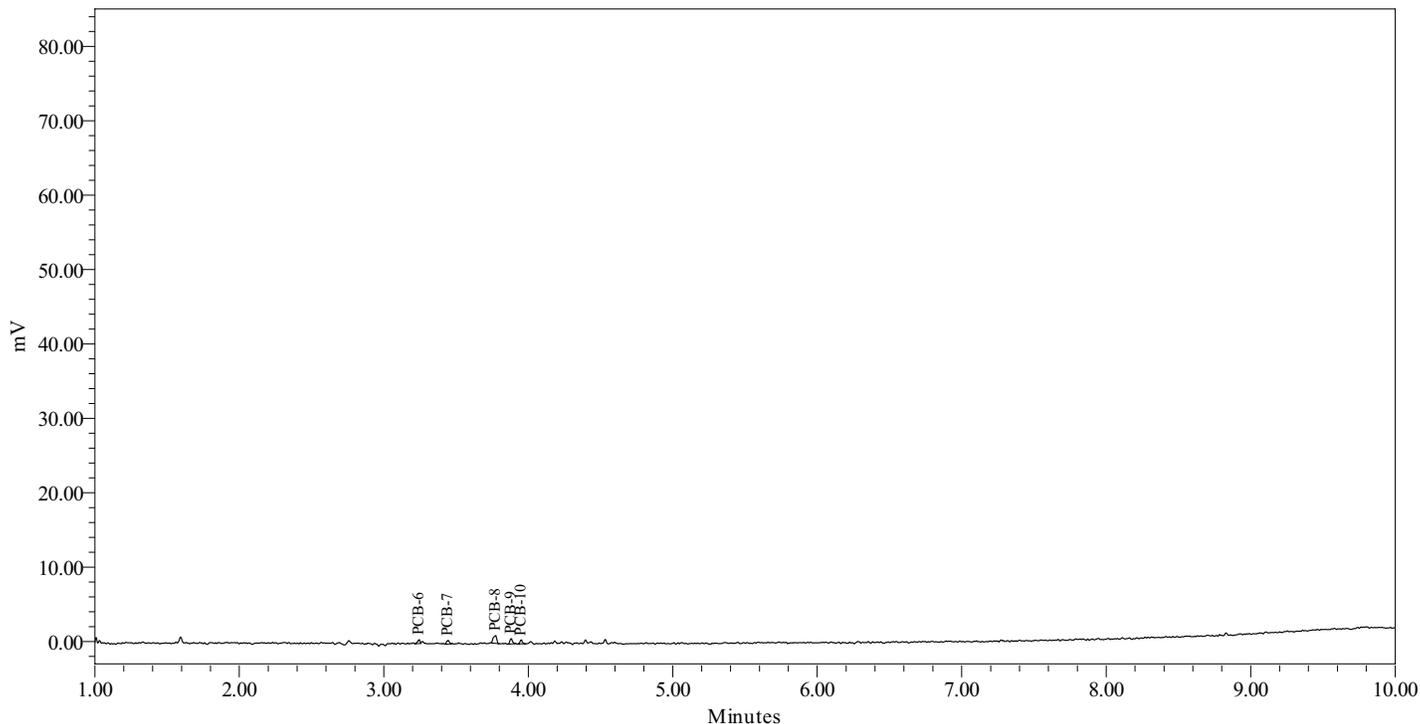
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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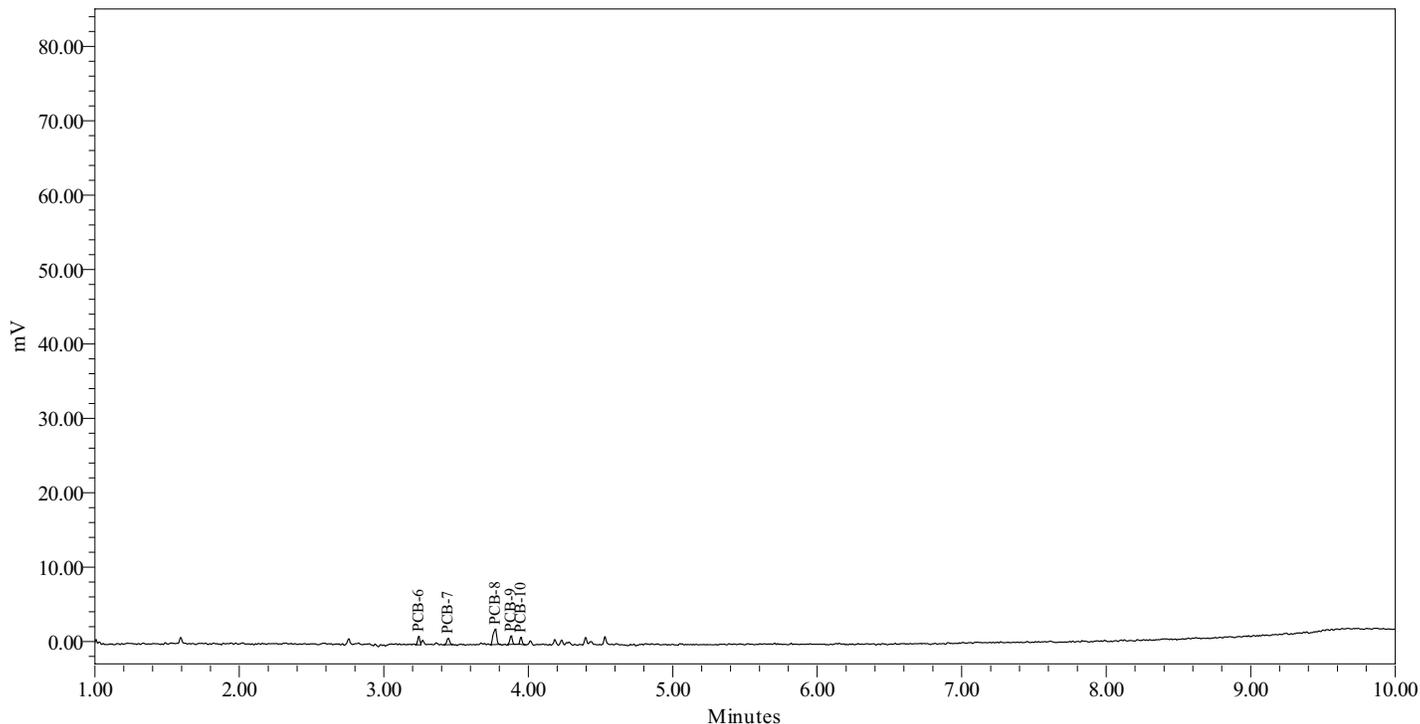
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 1182          |
| 2 | PCB-7     | 3.445          | bb               | 1151          |
| 3 | PCB-8     | 3.771          | bb               | 3544          |
| 4 | PCB-9     | 3.881          | bb               | 1340          |
| 5 | PCB-10    | 3.949          | bb               | 974           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 8191                | 10.000               |
| 2 | A1232      | 7009                |                      |
| 3 | A1232-8/9  | 2125                |                      |
| 4 | A1242      | 8191                |                      |



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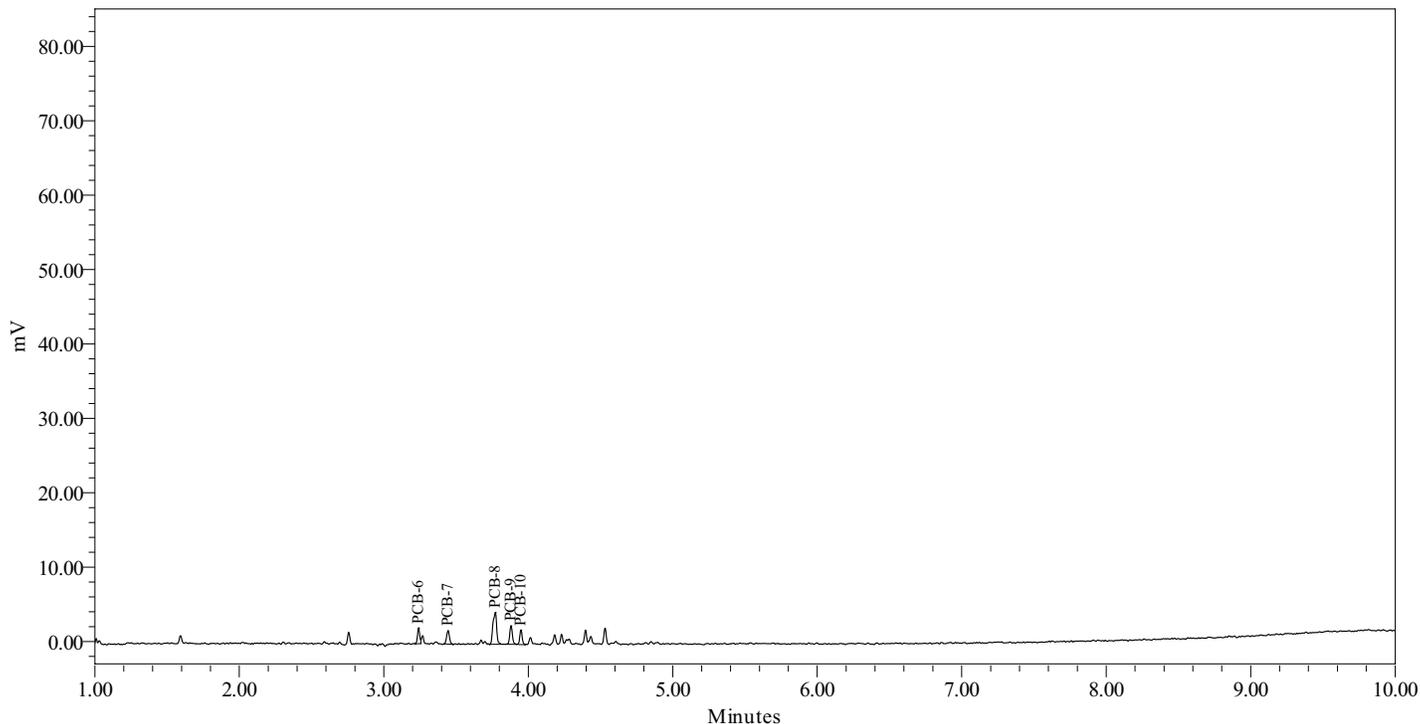
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 2349          |
| 2 PCB-7   | 3.444          | bb               | 2467          |
| 3 PCB-8   | 3.771          | bb               | 7692          |
| 4 PCB-9   | 3.880          | bV               | 3110          |
| 5 PCB-10  | 3.949          | Vb               | 2214          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 17832               | 20.000               |
| 2 A1232     | 15483               |                      |
| 3 A1232-8/9 | 4681                |                      |
| 4 A1242     | 17832               |                      |



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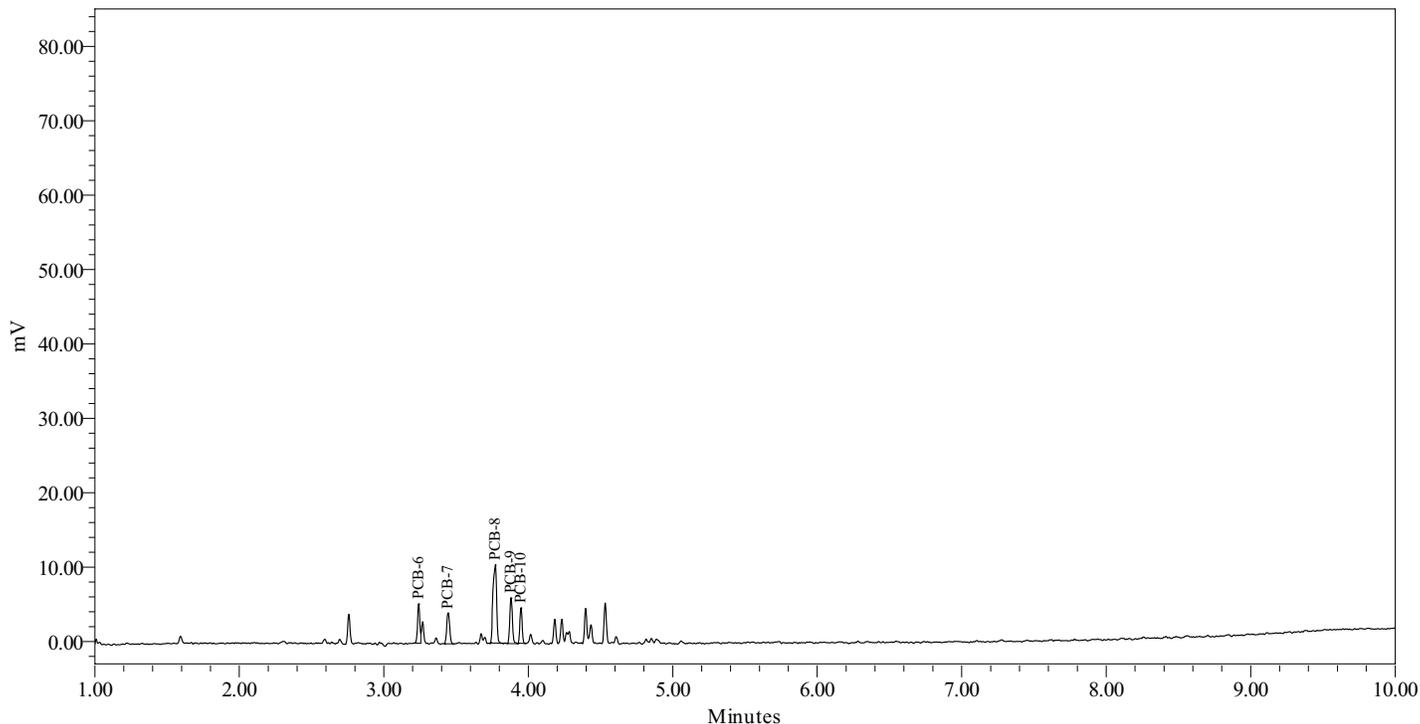
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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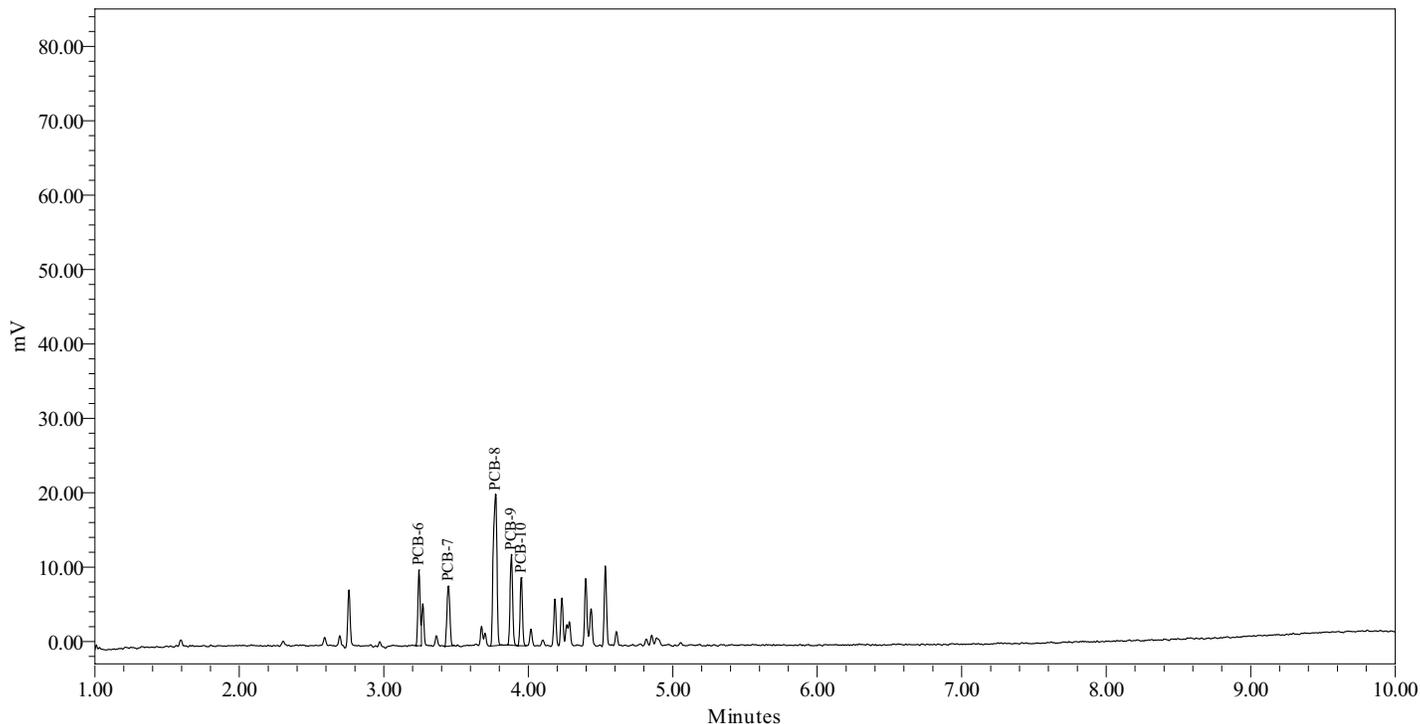
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.243          | bV               | 11381         |
| 2 PCB-7   | 3.447          | bb               | 11368         |
| 3 PCB-8   | 3.773          | bb               | 35910         |
| 4 PCB-9   | 3.883          | bB               | 14405         |
| 5 PCB-10  | 3.951          | Bb               | 10008         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 83072               | 100.000              |
| 2 A1232     | 71691               |                      |
| 3 A1232-8/9 | 21376               |                      |
| 4 A1242     | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

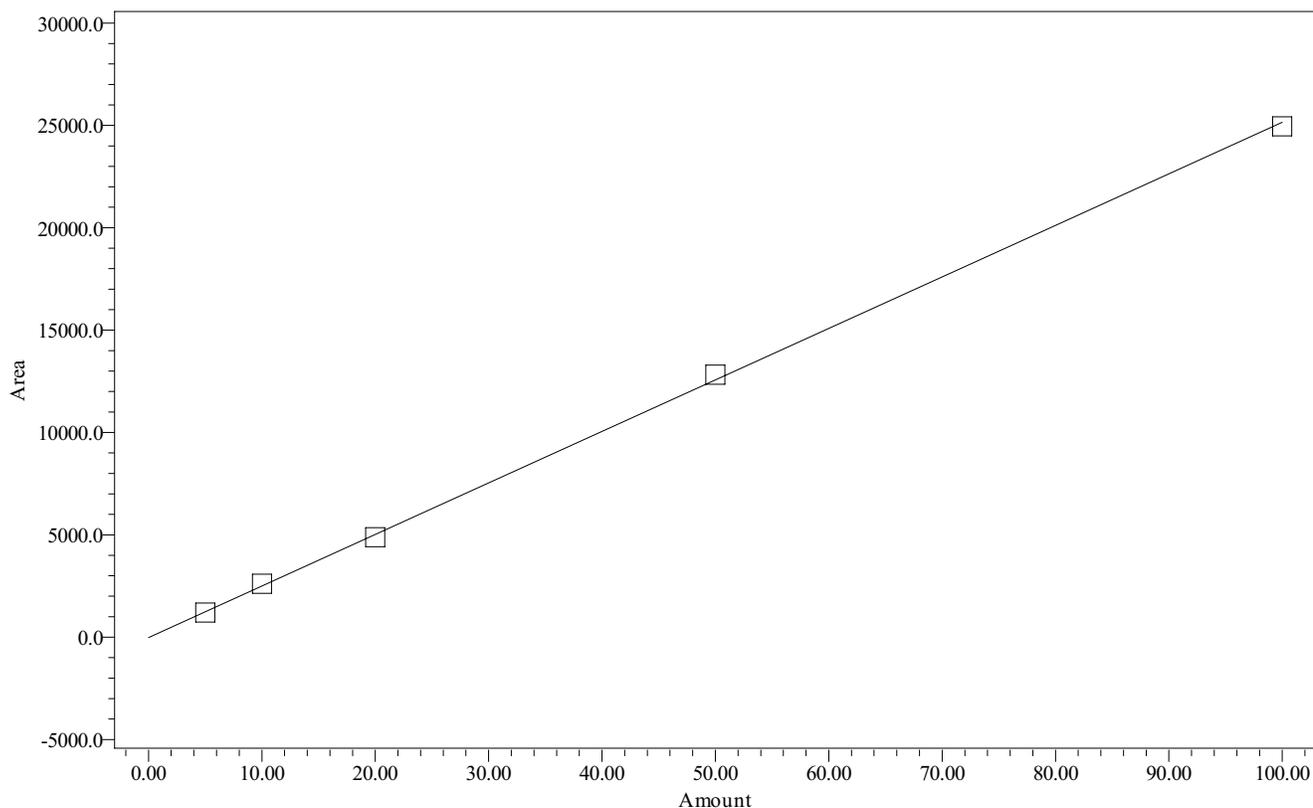
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221                    | Coefficient constant A:                       | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

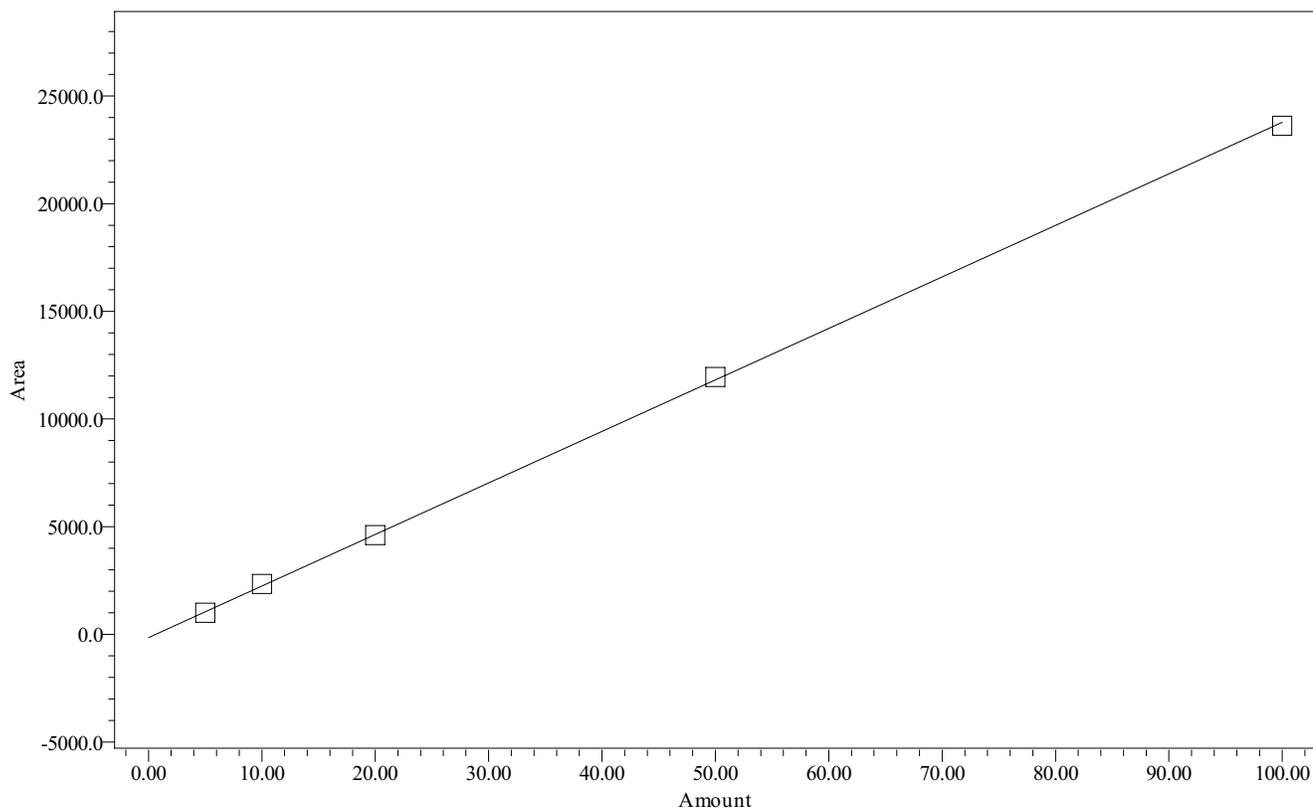
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



Point Table  
Peak: A1221-2

|   | Name     | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00          | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00         | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00         | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00         | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00        | 23618    | 99.3        | -0.675      | No     | No     |

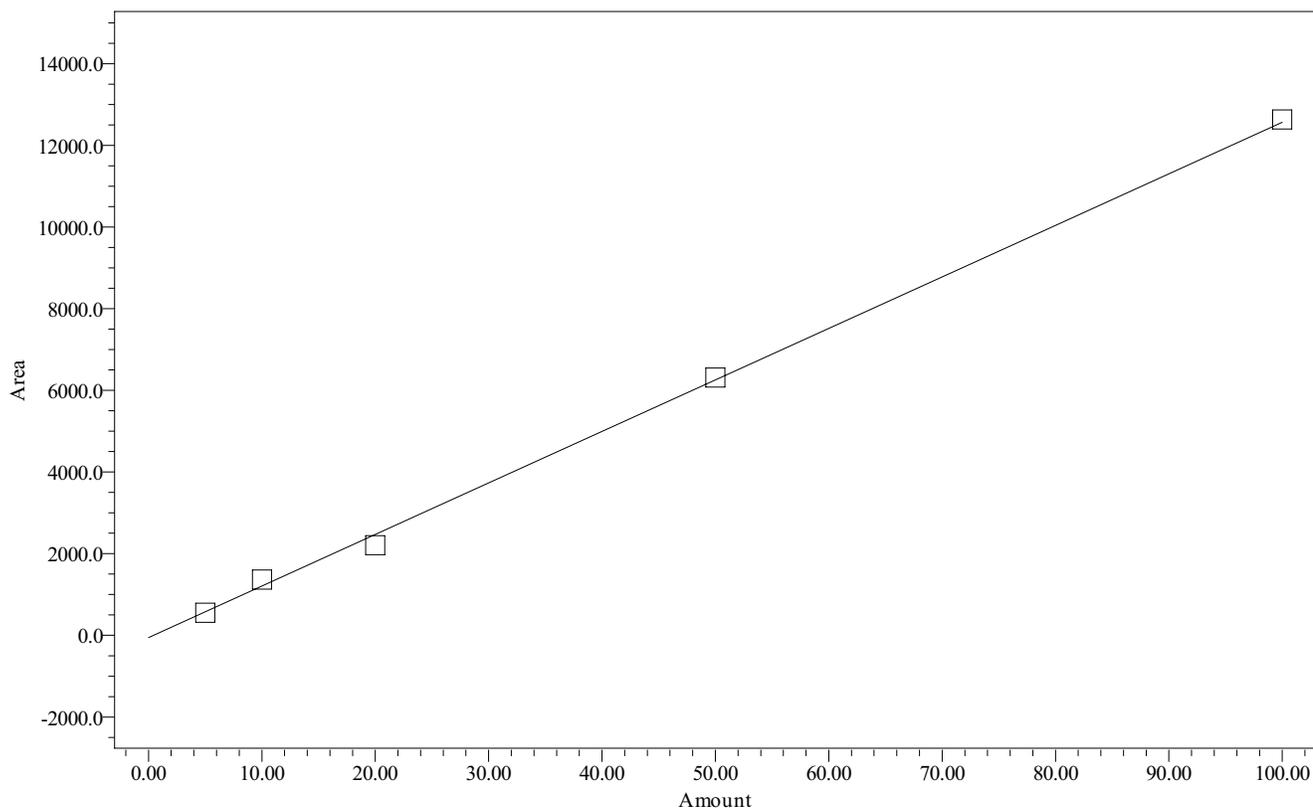
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1221-5                  | Coefficient constant A:           | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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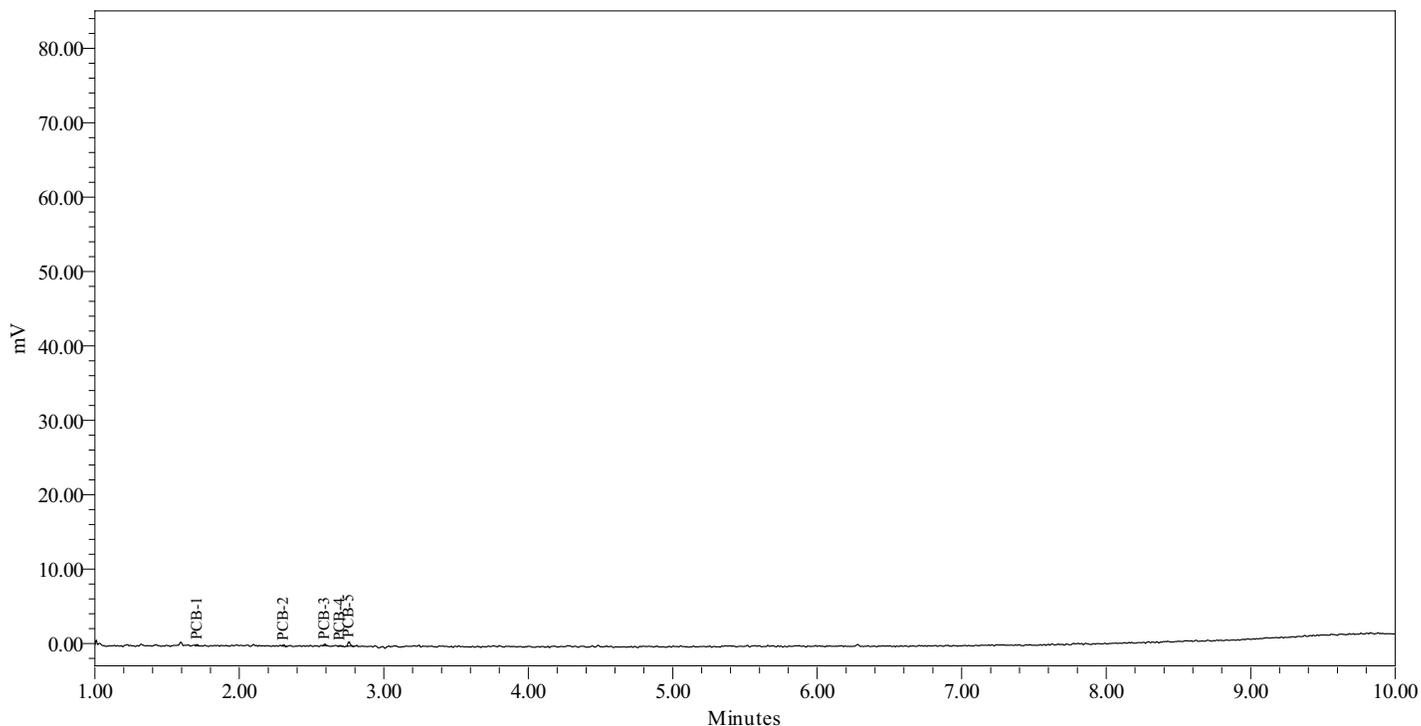
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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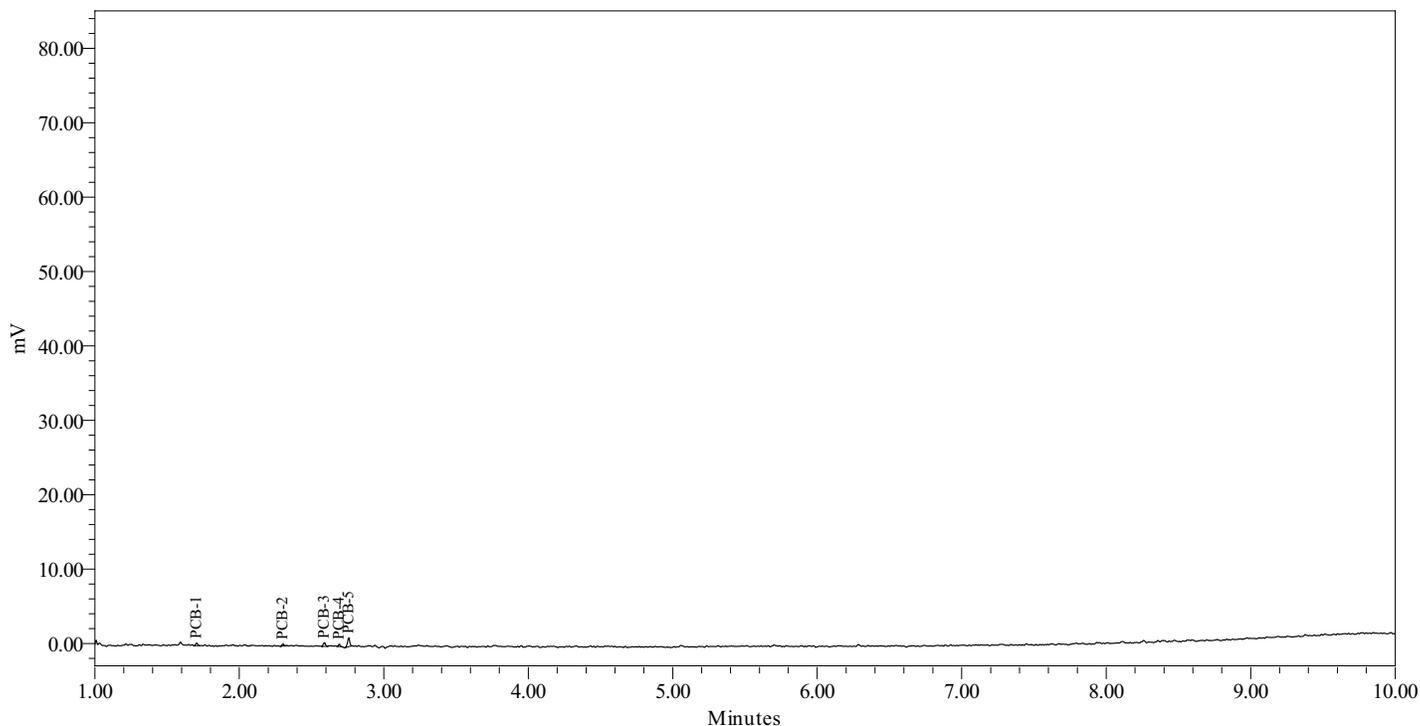
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-1     | 1.703          | bb               | 323           |
| 2 | PCB-2     | 2.301          | bb               | 272           |
| 3 | PCB-3     | 2.588          | bb               | 517           |
| 4 | PCB-4     | 2.691          | bb               | 256           |
| 5 | PCB-5     | 2.757          | bb               | 1247          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1221      | 2615                | 10.000               |
| 2 | A1221-2    | 2343                | 10.000               |
| 3 | A1221-5    | 1368                | 10.000               |
| 4 | A1232      | 1247                |                      |
| 5 | A1232-8/9  | 1247                |                      |



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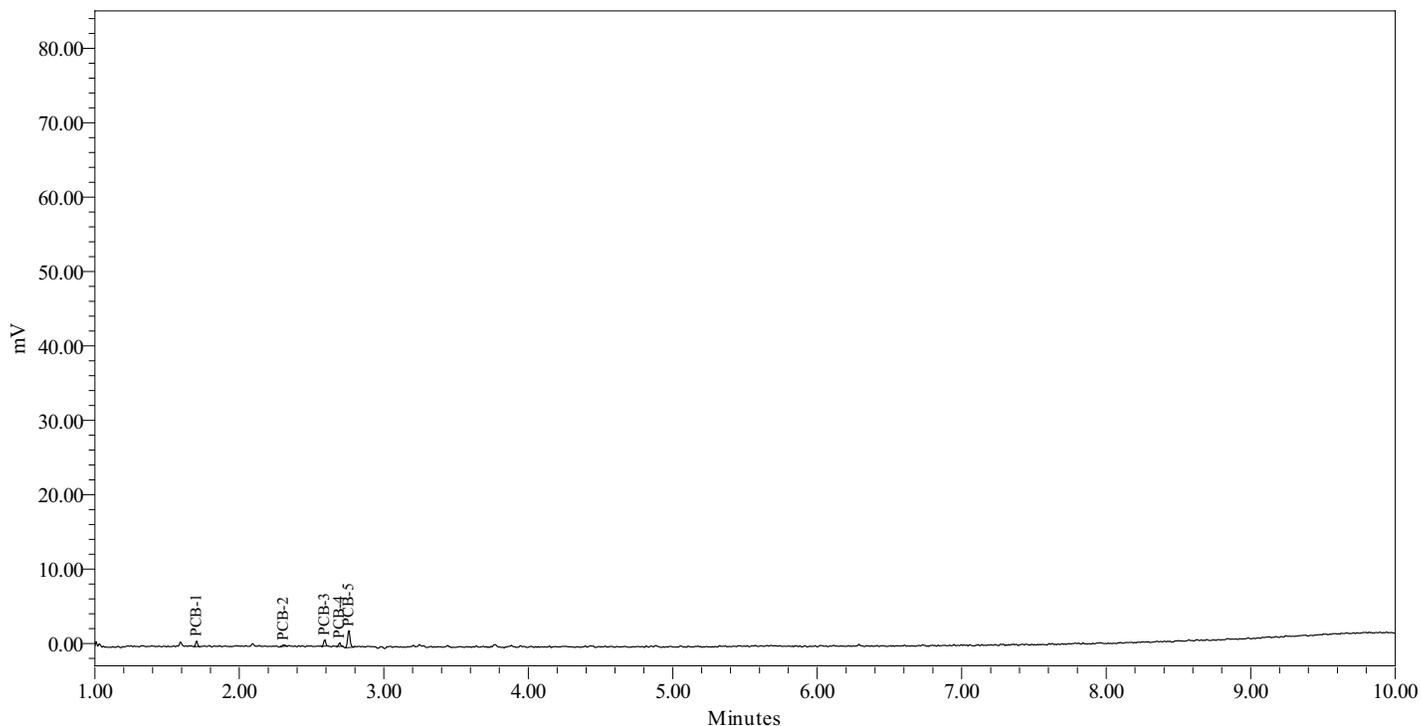
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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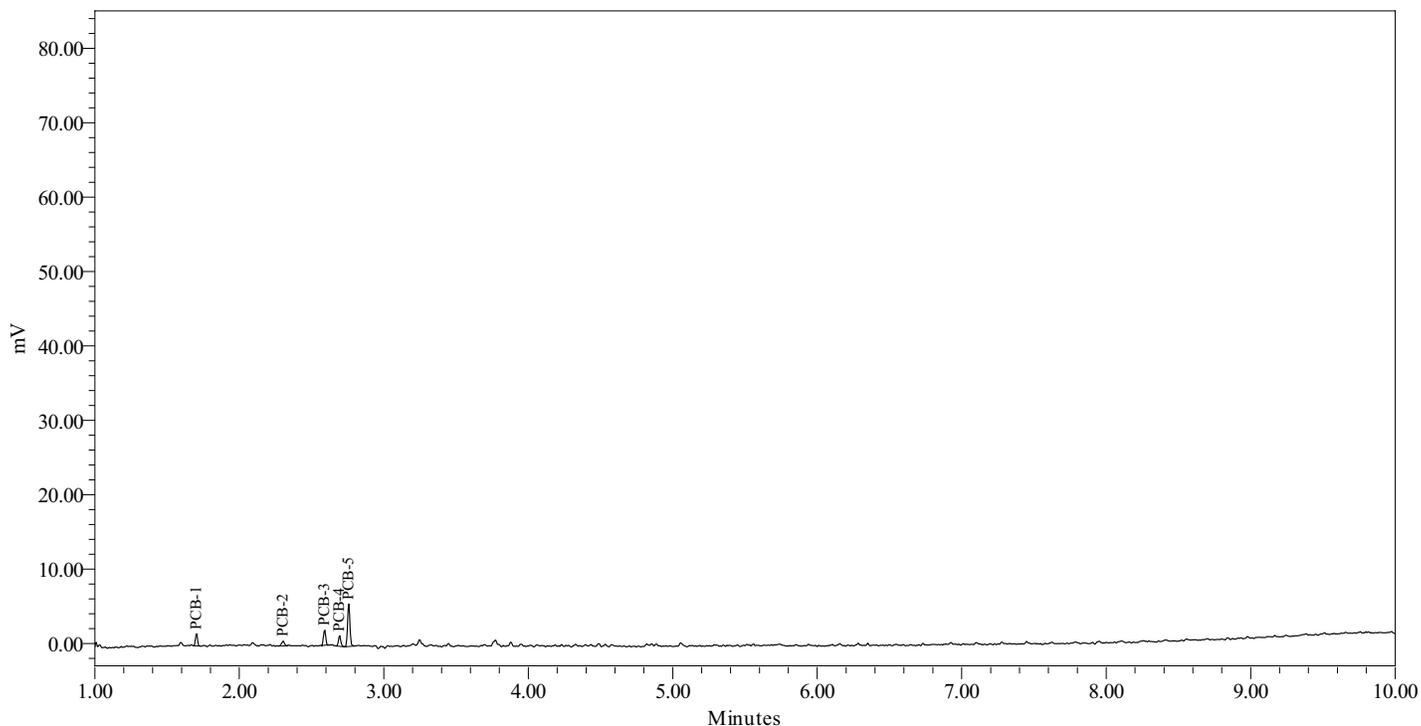
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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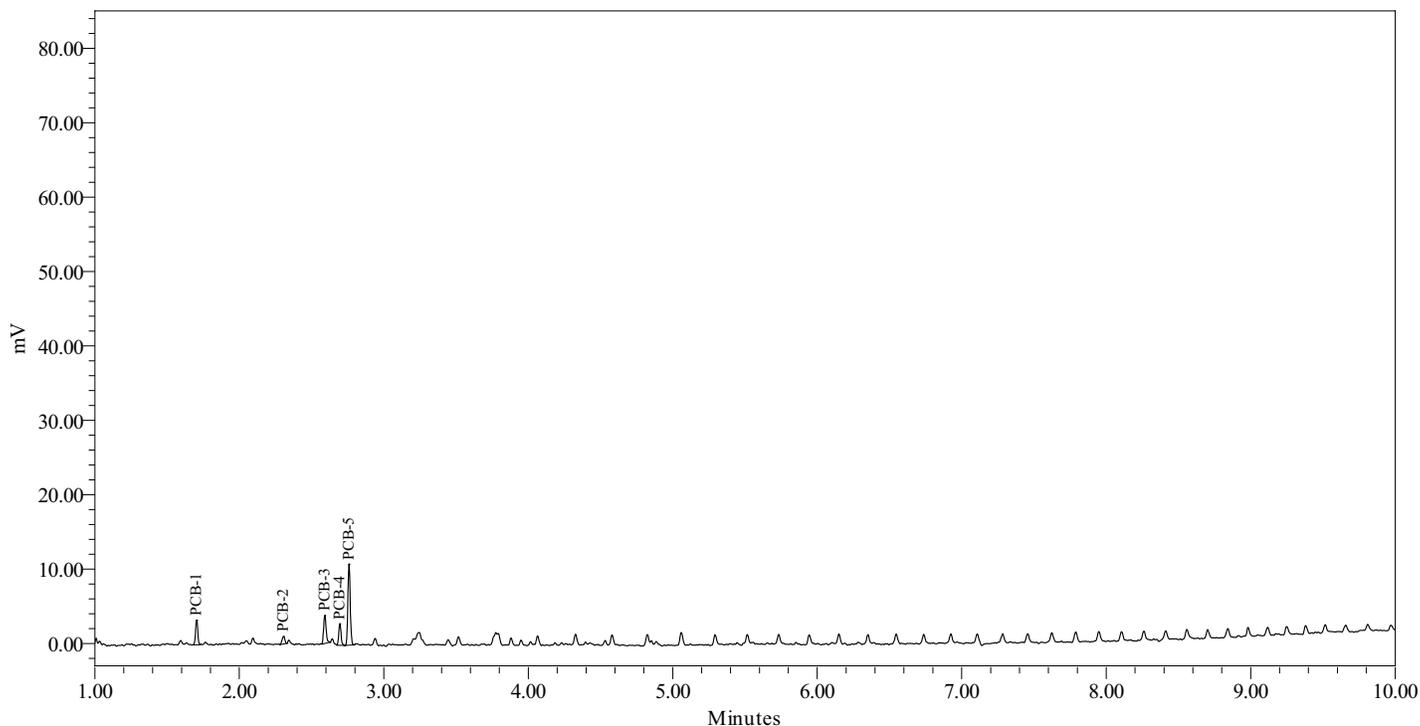
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

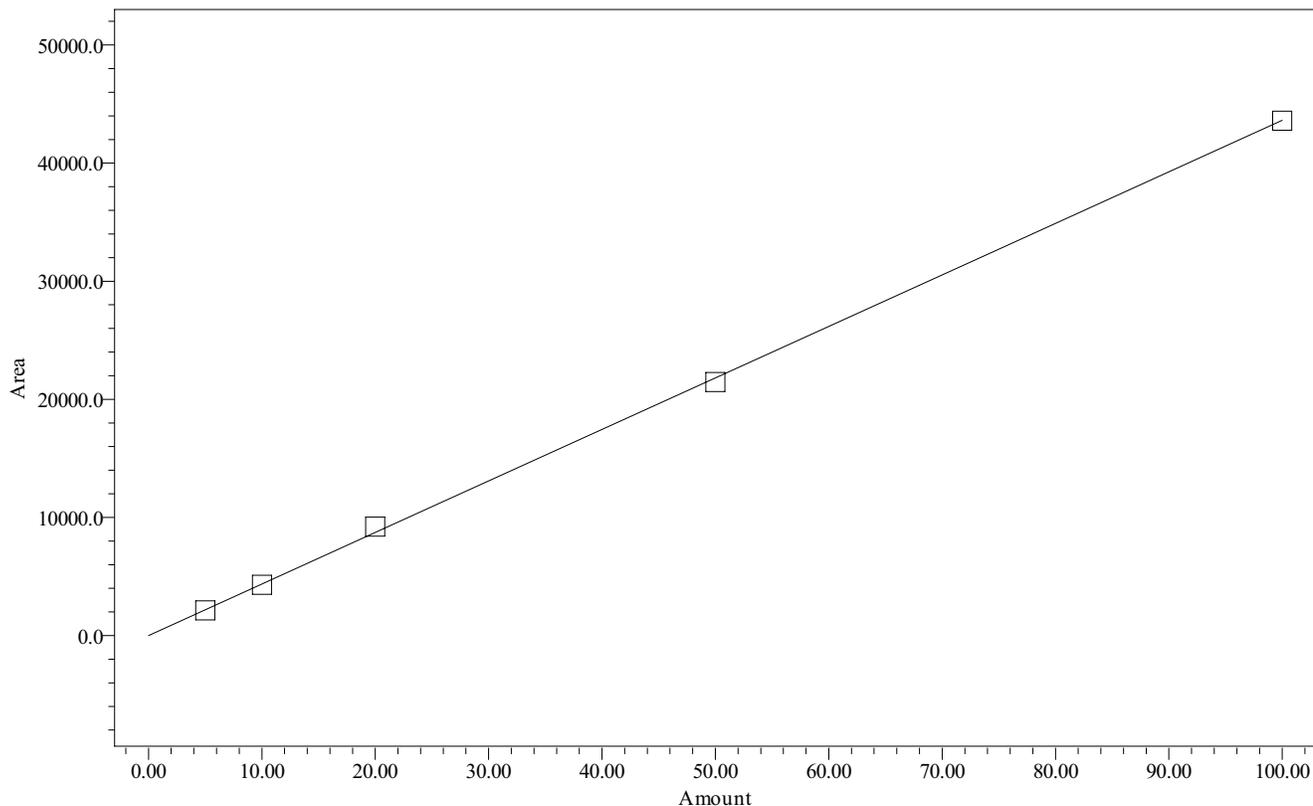
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

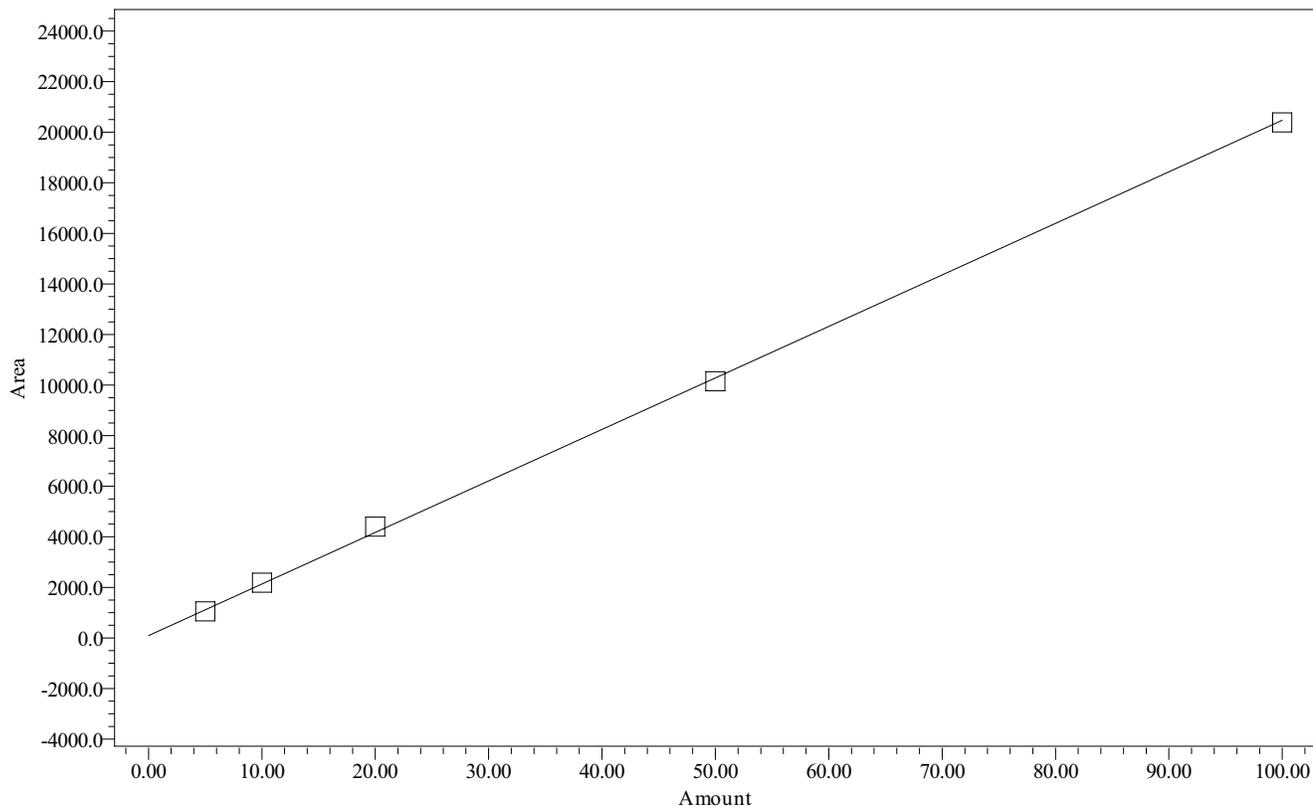
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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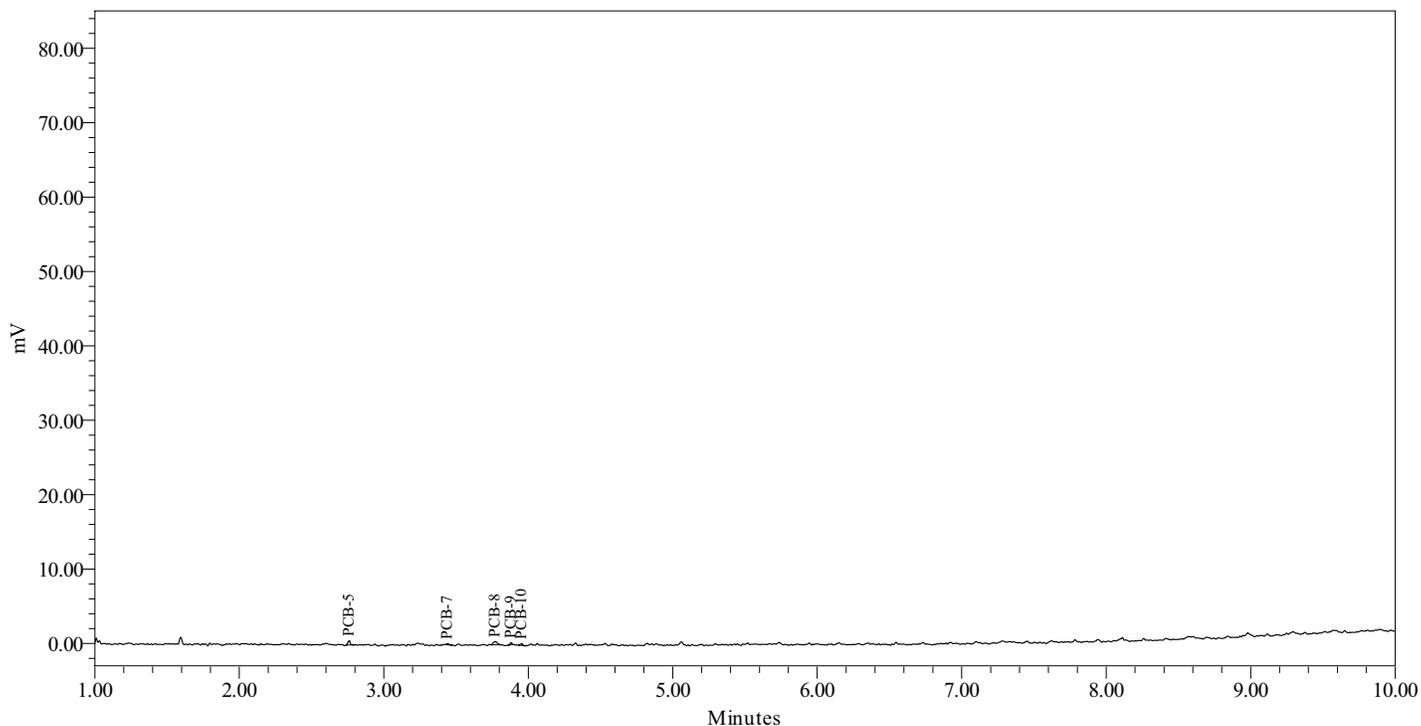
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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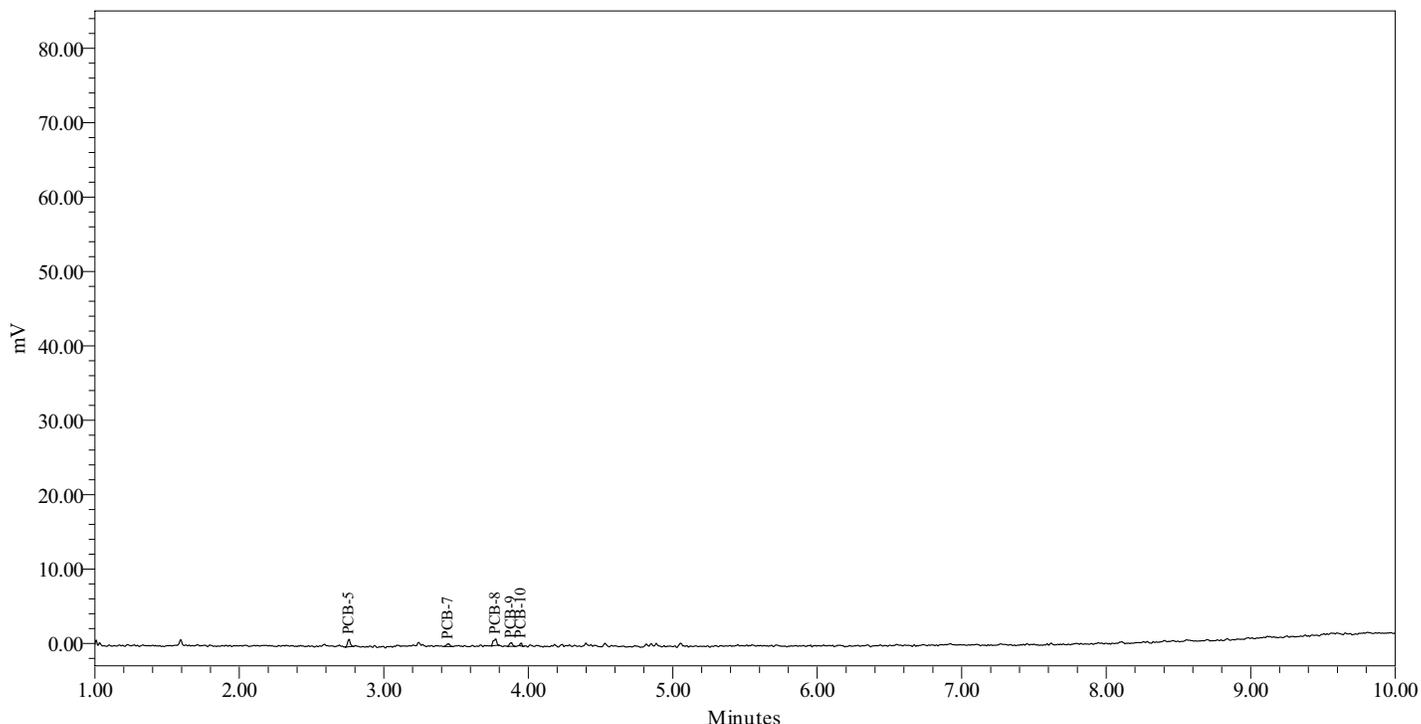
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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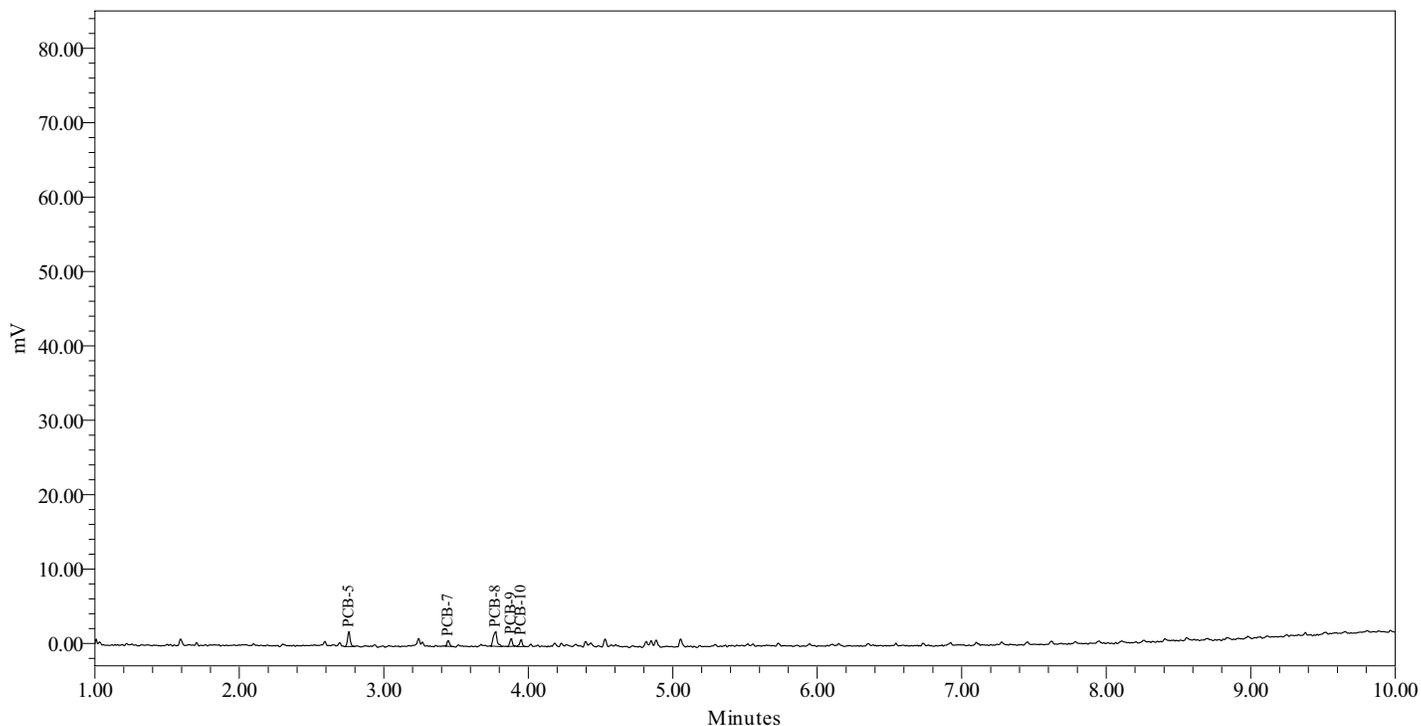
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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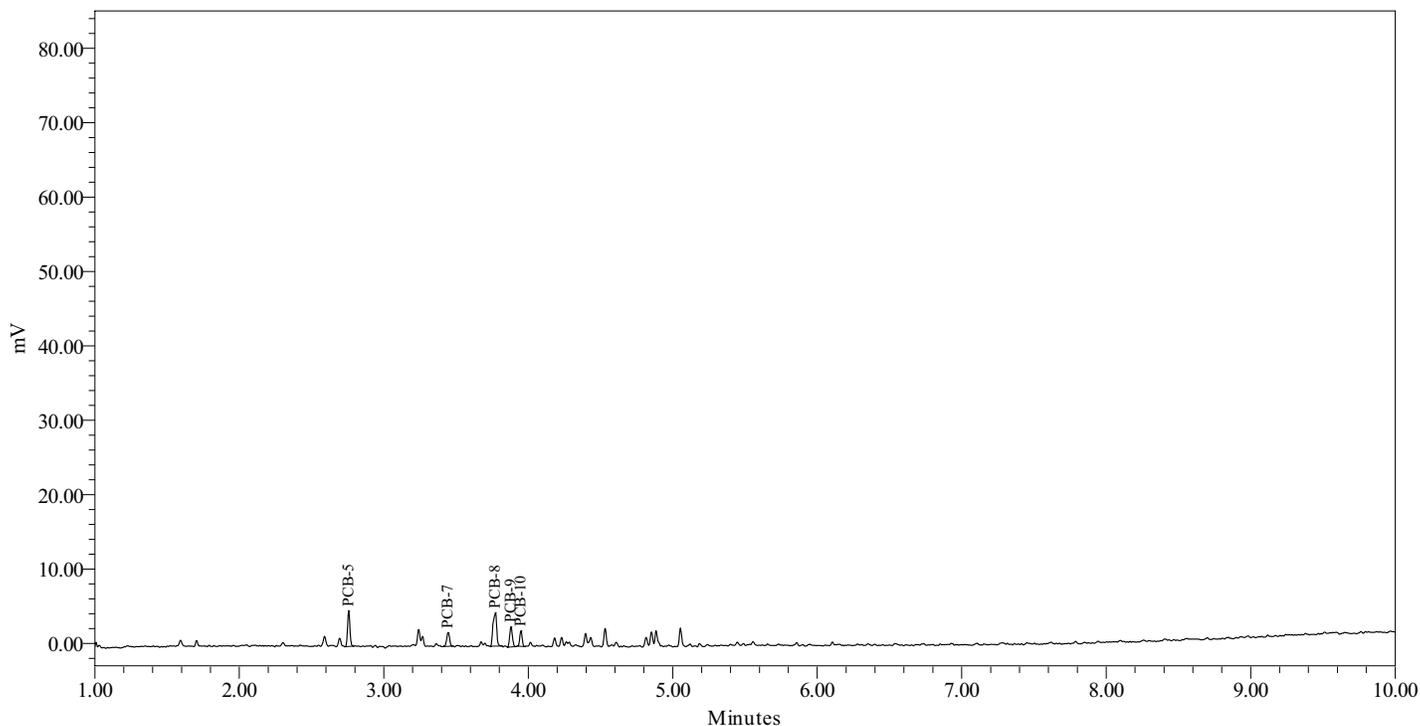
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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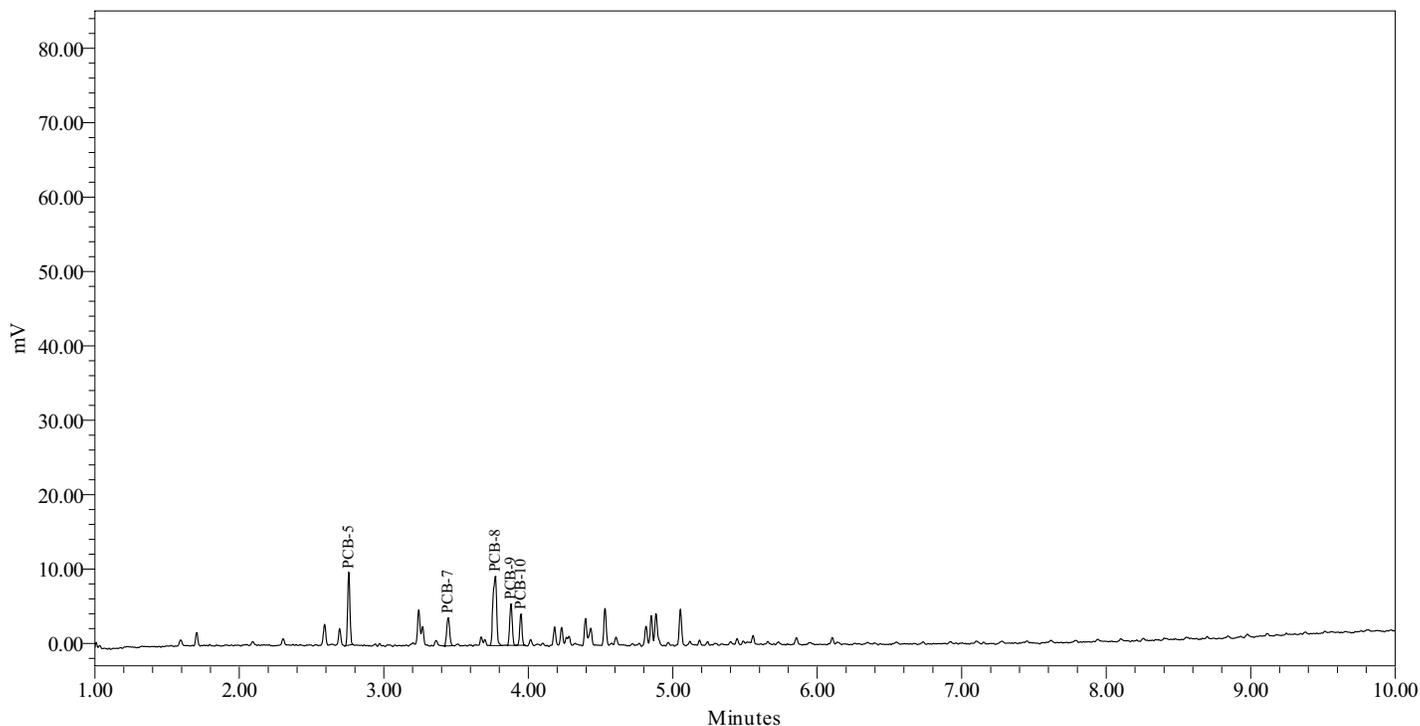
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

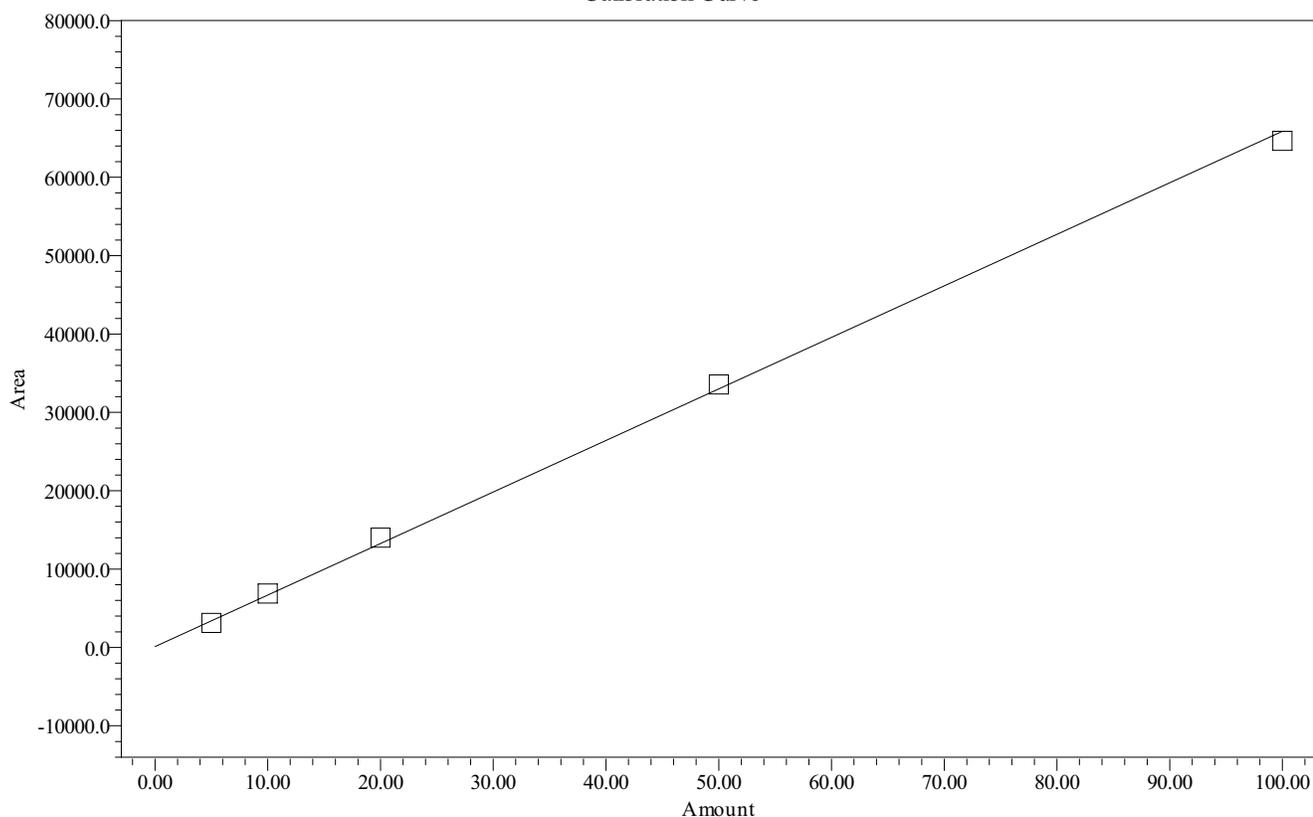
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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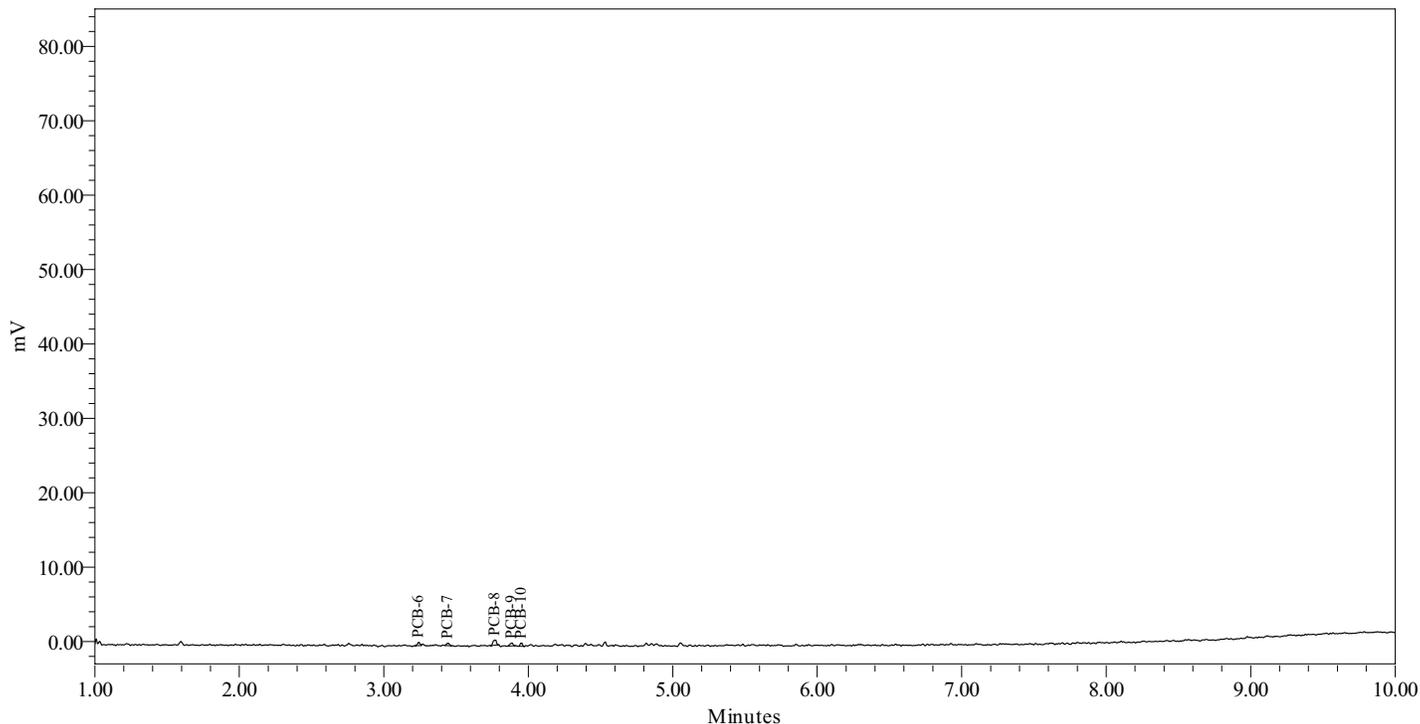
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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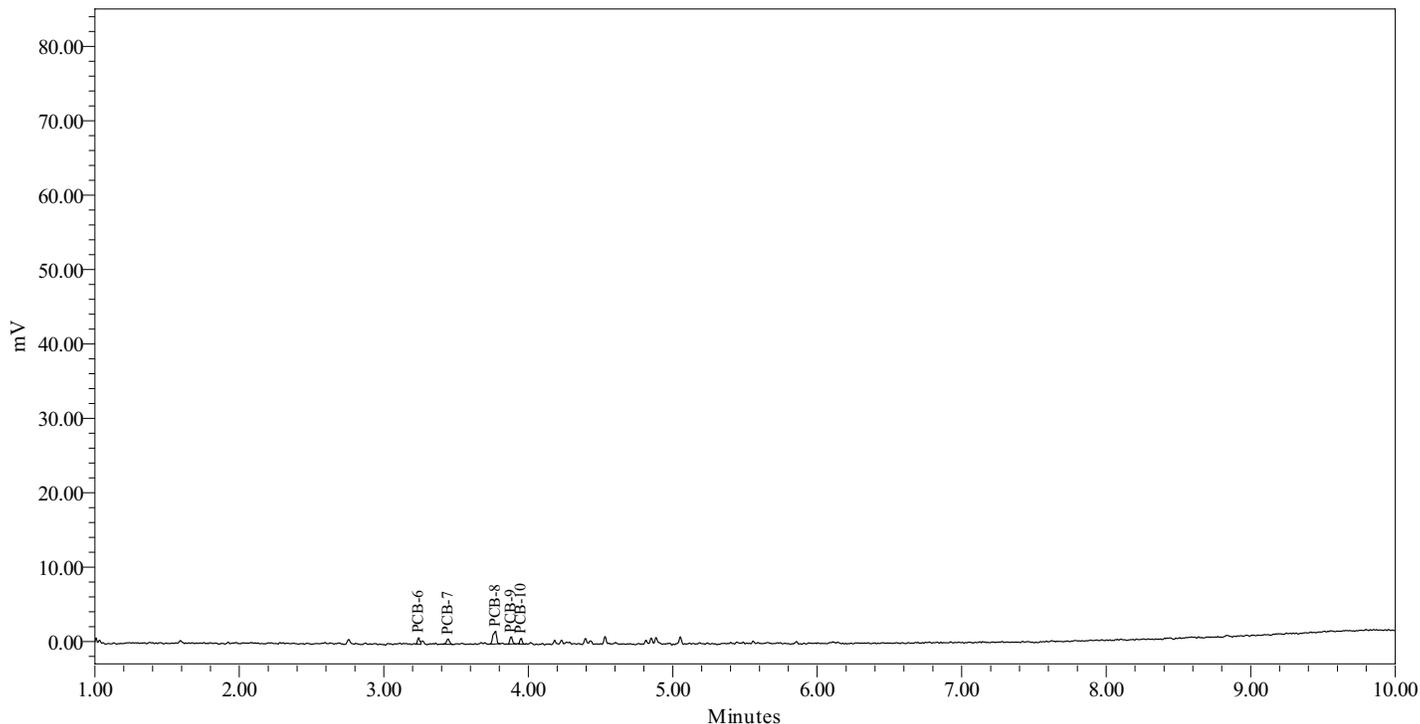
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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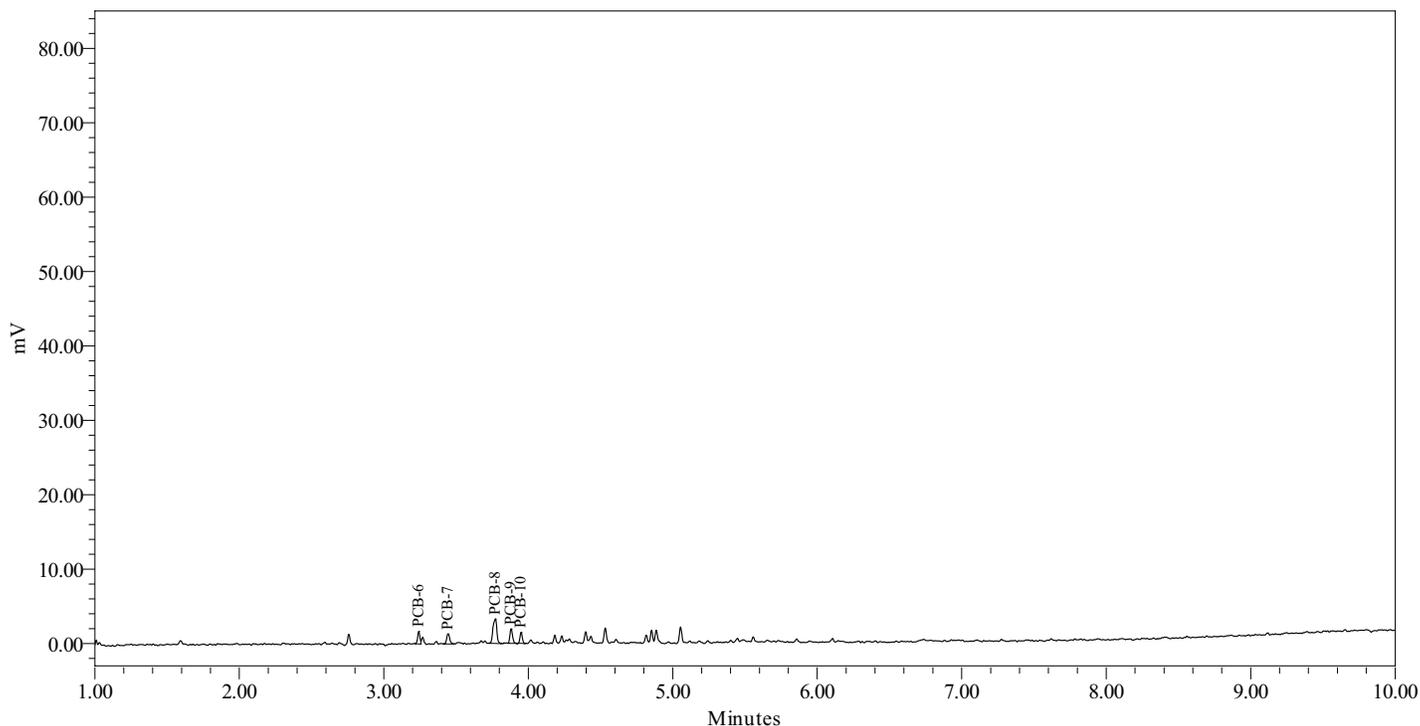
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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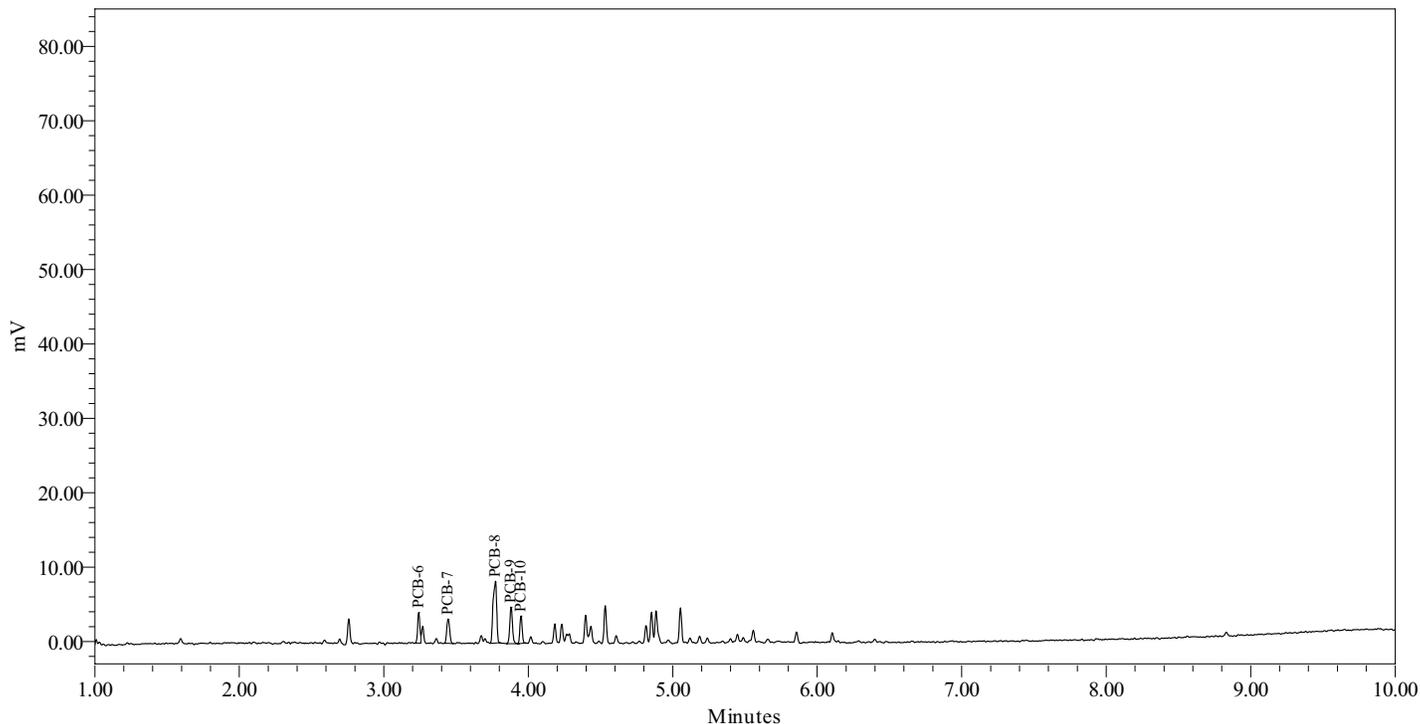
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 4482          |
| 2 | PCB-7     | 3.445          | bb               | 4543          |
| 3 | PCB-8     | 3.772          | bb               | 14379         |
| 4 | PCB-9     | 3.881          | bB               | 6189          |
| 5 | PCB-10    | 3.950          | Bb               | 3965          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 33559               |                      |
| 2 | A1232      | 29076               |                      |
| 3 | A1232-8/9  | 8508                |                      |
| 4 | A1242      | 33559               | 50.000               |



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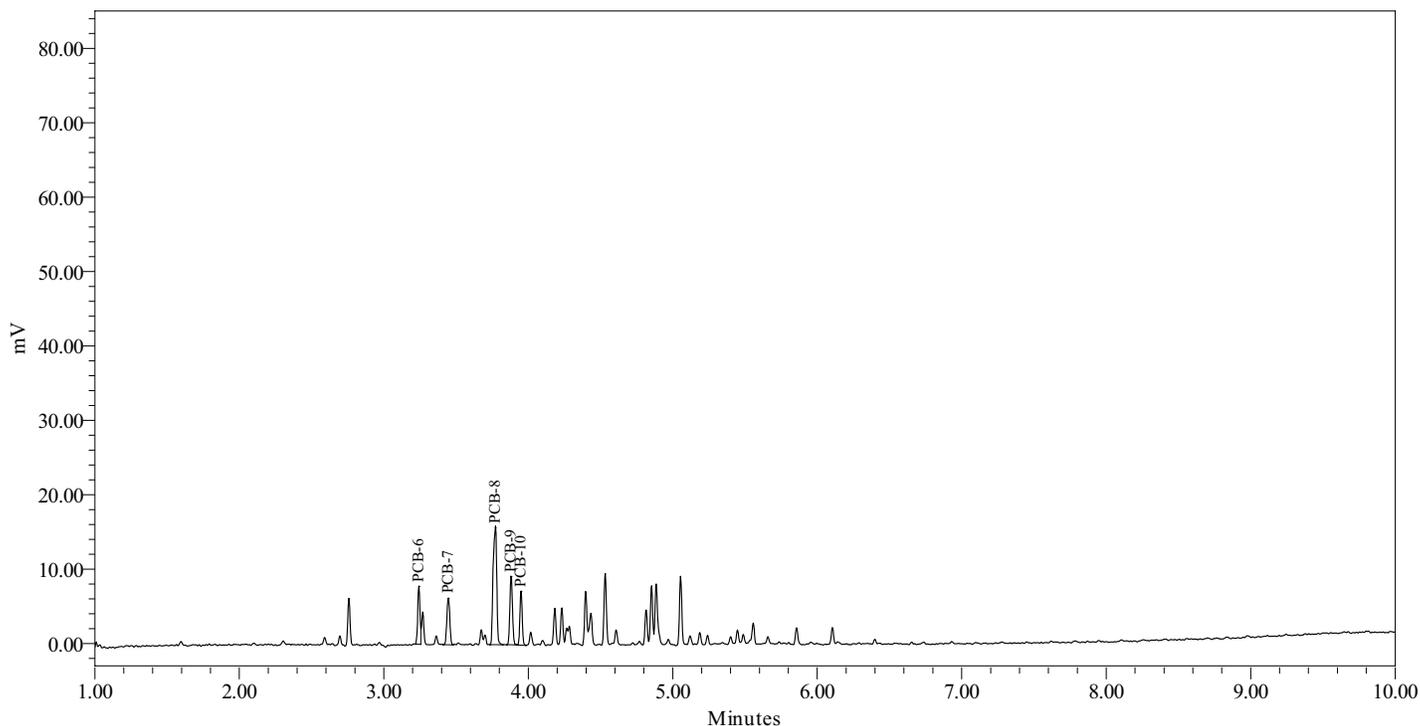
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

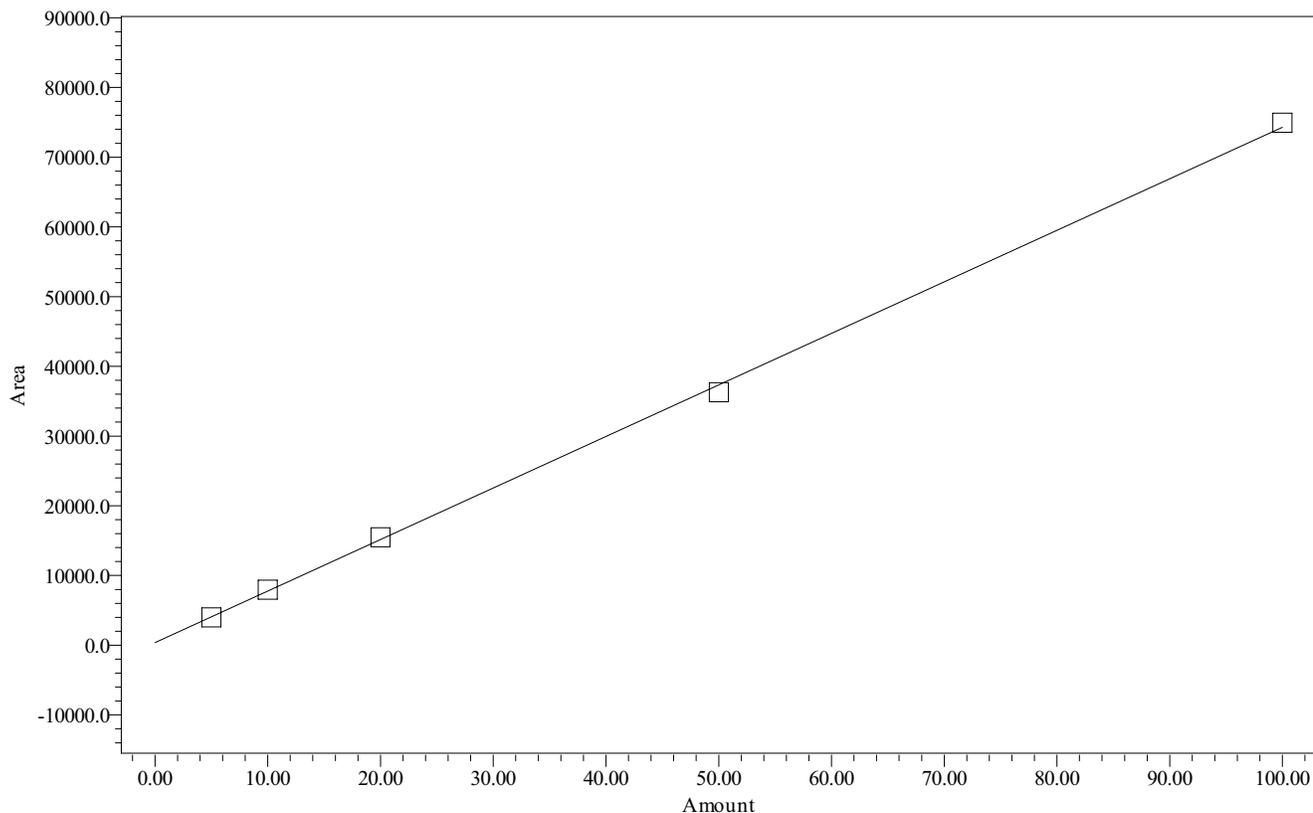
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

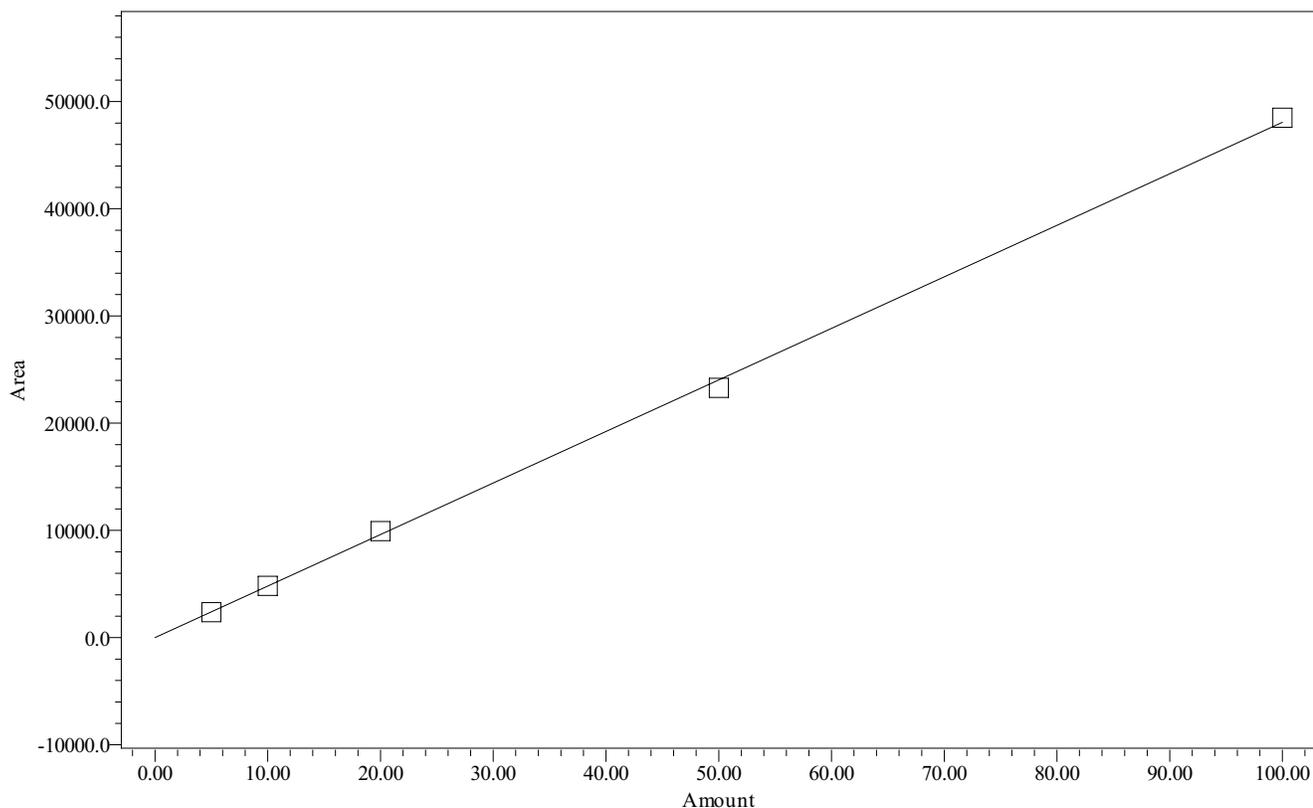
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00          | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00         | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00         | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00         | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00        | 48504    | 100.9       | 0.912       | No     | No     |

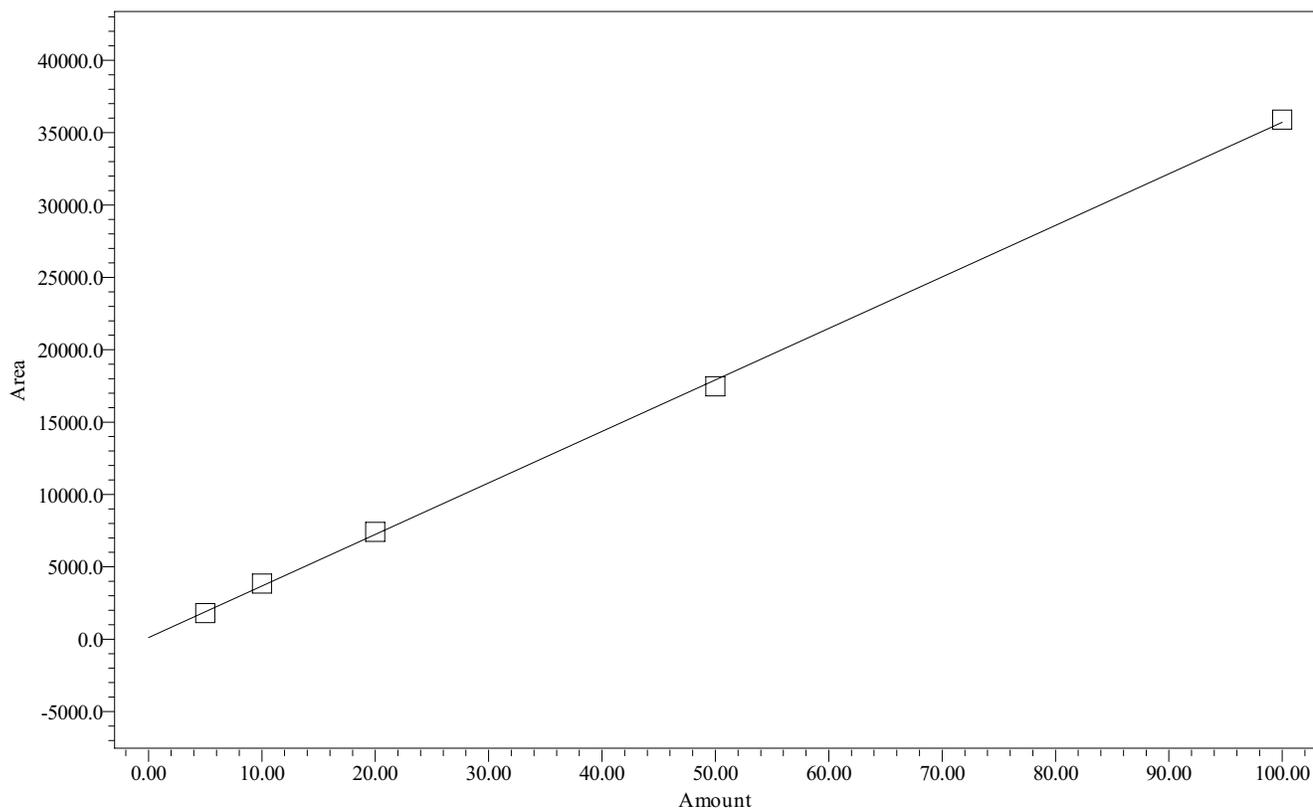
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount<br>PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|---------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00          | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00         | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00         | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00         | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00        | 35901    | 100.5       | 0.529       | No     | No     |

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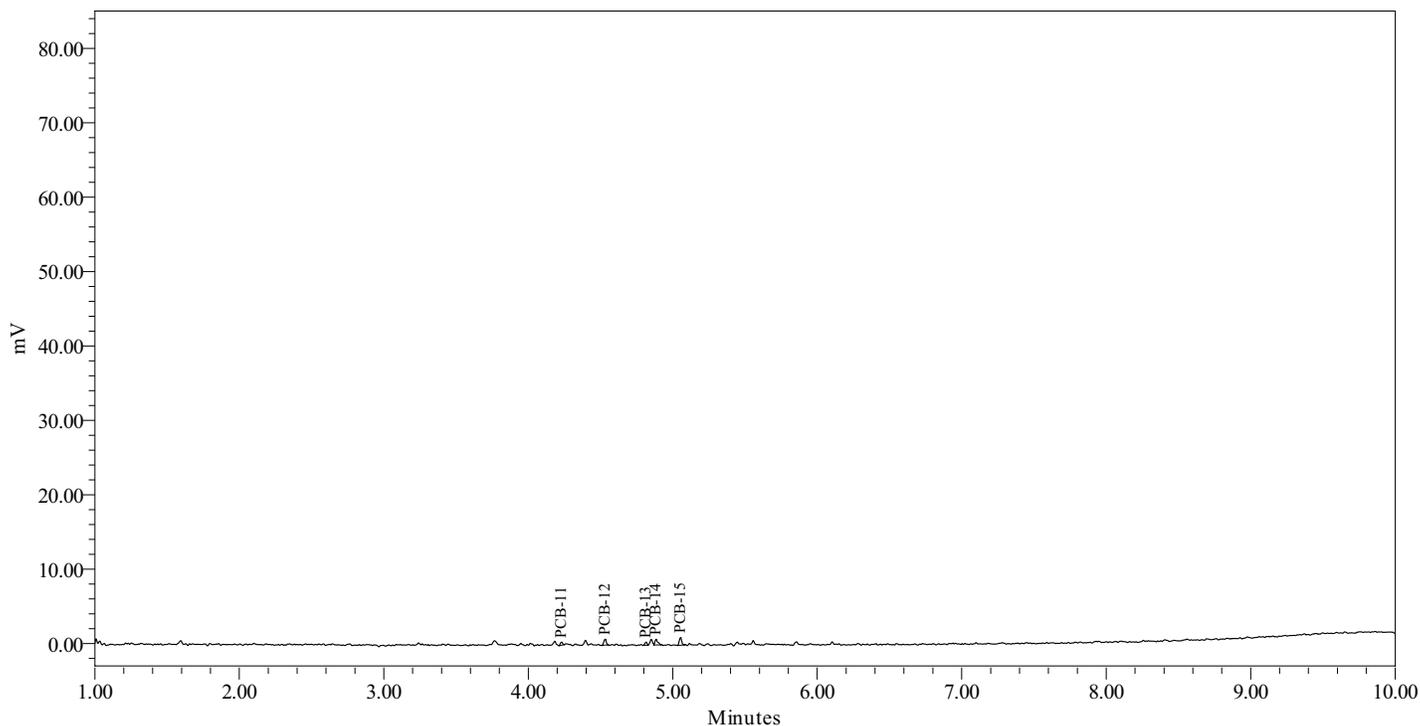
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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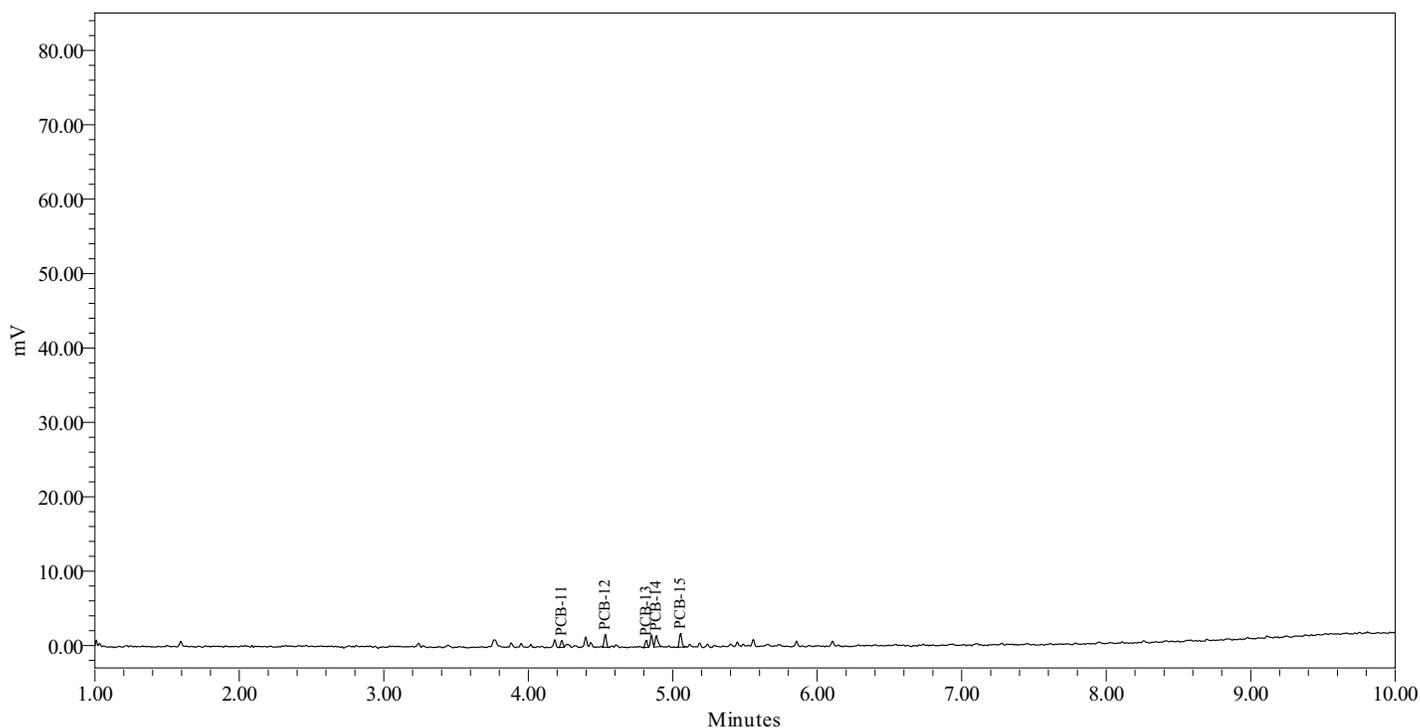
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.231          | bv               | 1011          |
| 2 | PCB-12    | 4.533          | bb               | 1808          |
| 3 | PCB-13    | 4.816          | bV               | 1021          |
| 4 | PCB-14    | 4.886          | Vb               | 2005          |
| 5 | PCB-15    | 5.054          | bb               | 2102          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 7948                | 10.000               |
| 2 | A1248-11/15 | 4835                | 10.000               |
| 3 | A1248-14/15 | 3841                | 10.000               |



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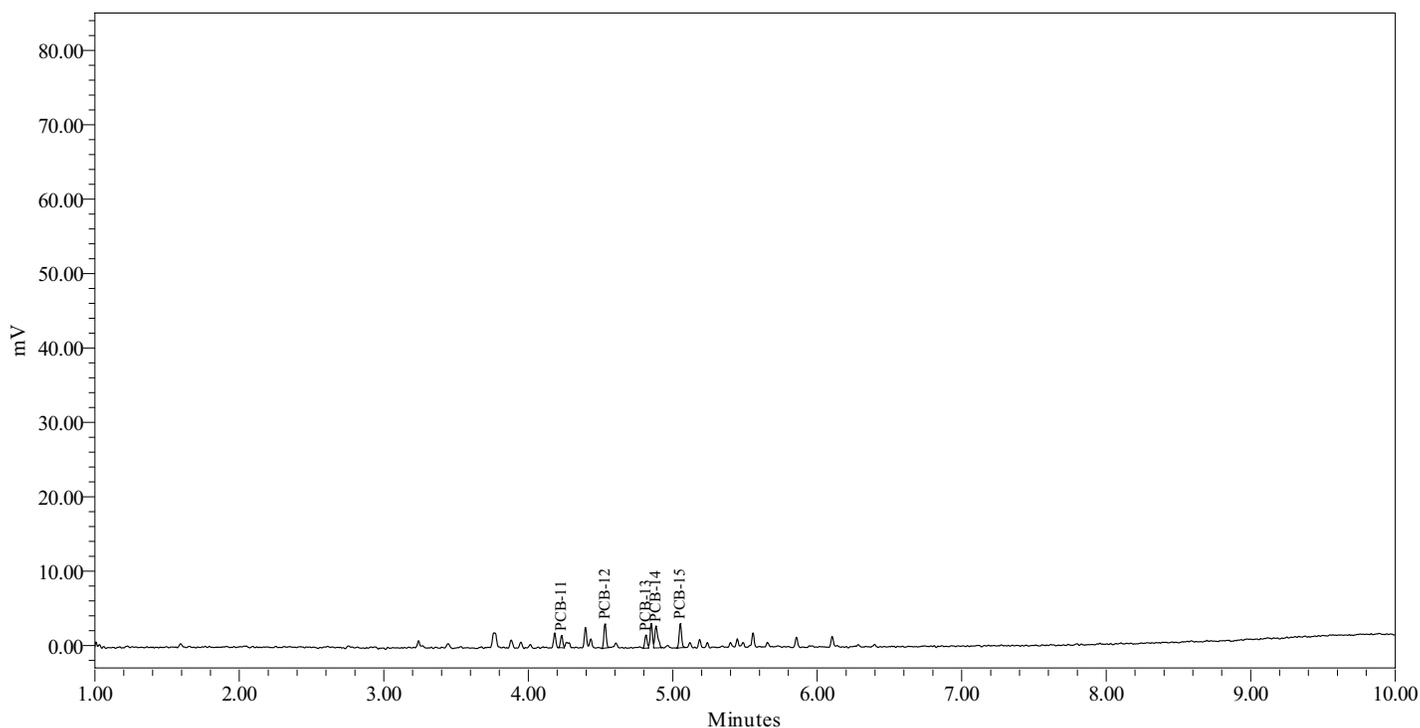
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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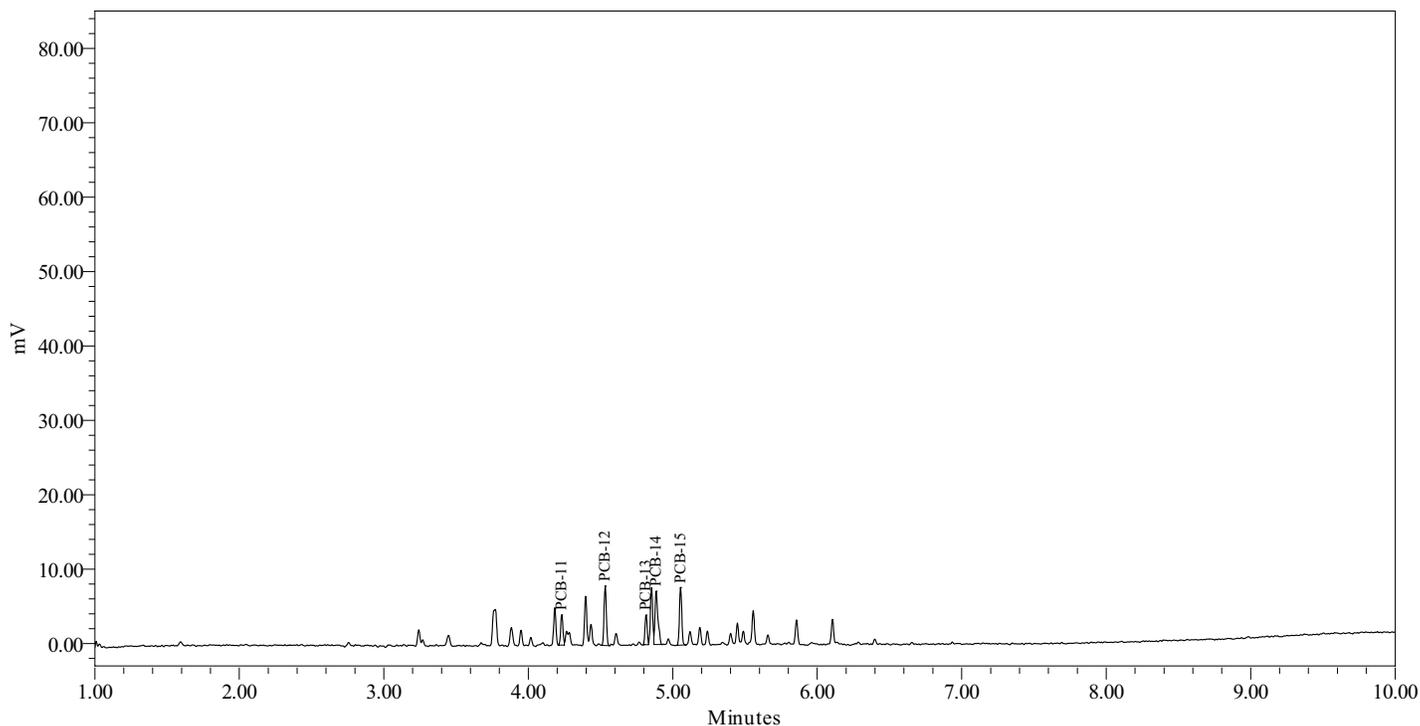
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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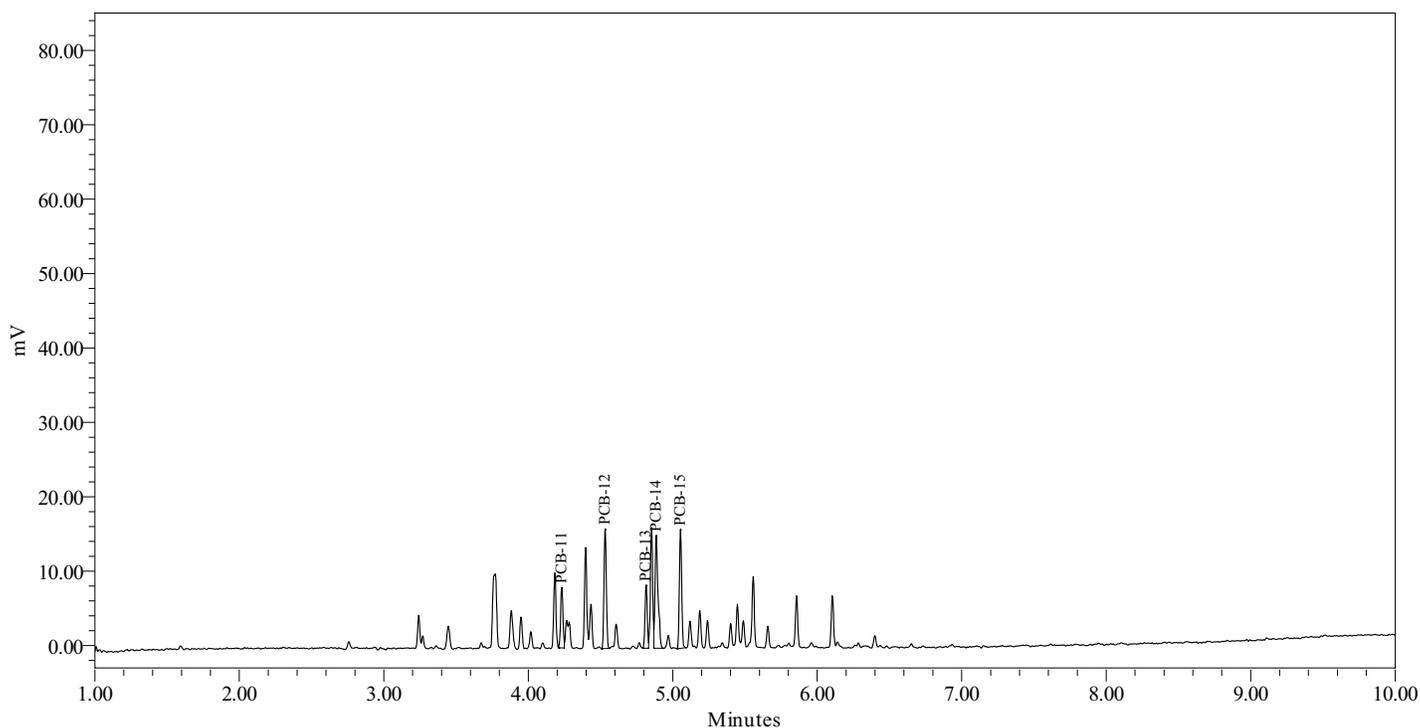
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

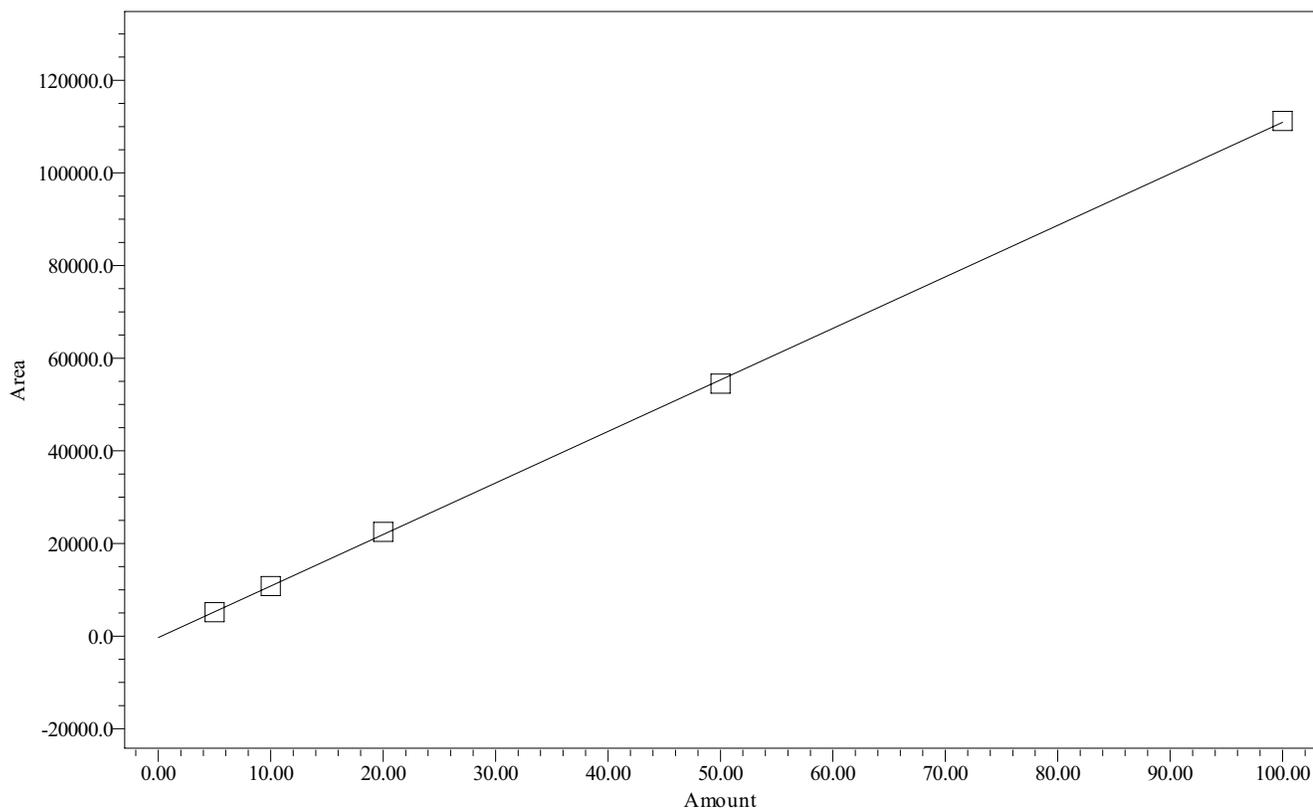
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1254                    | Coefficient constant A:                       | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

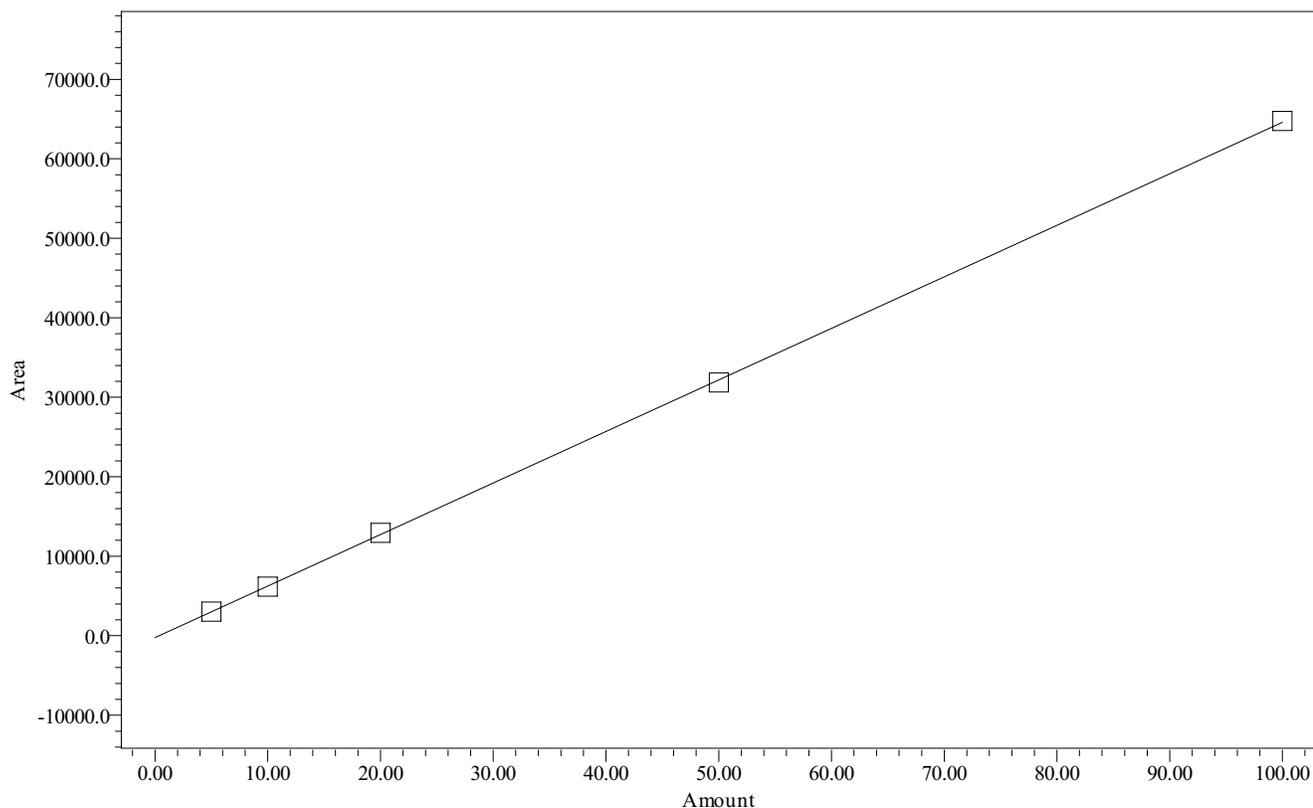
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

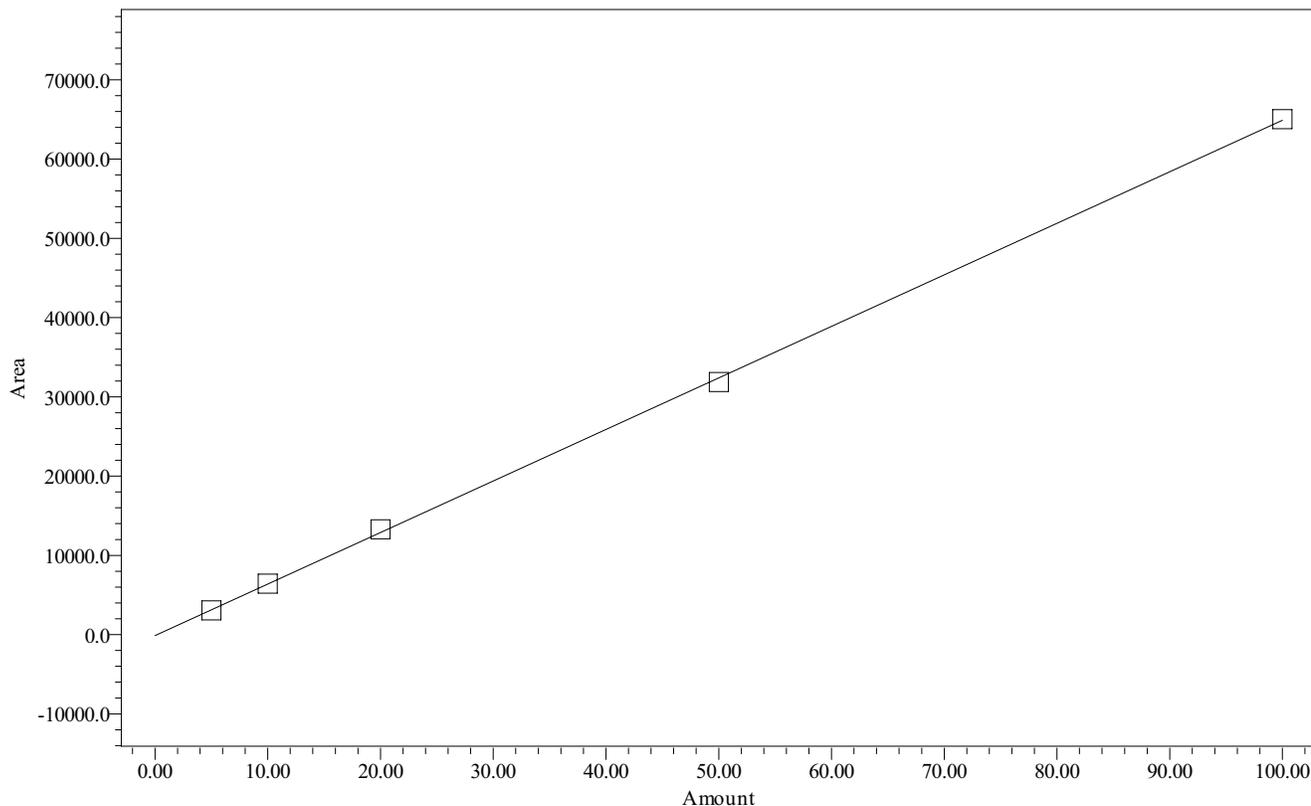
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

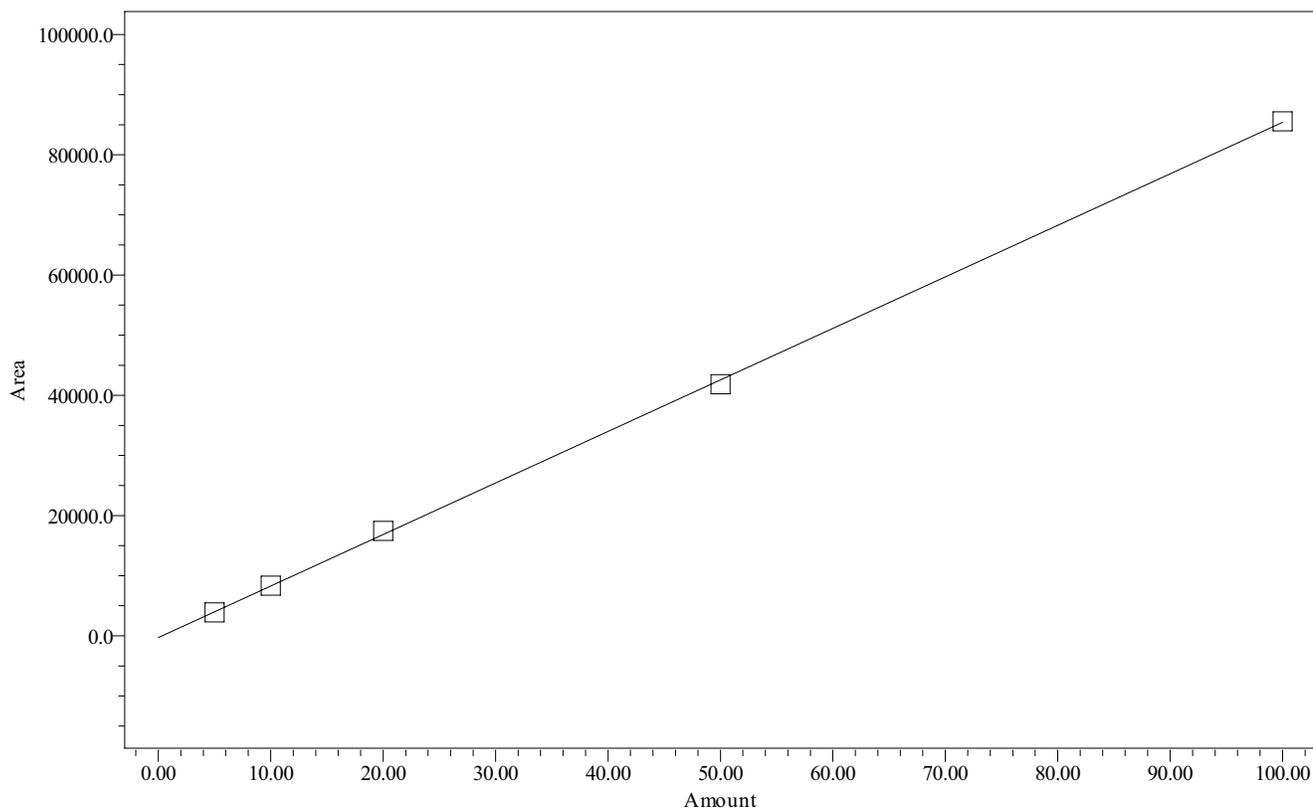
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

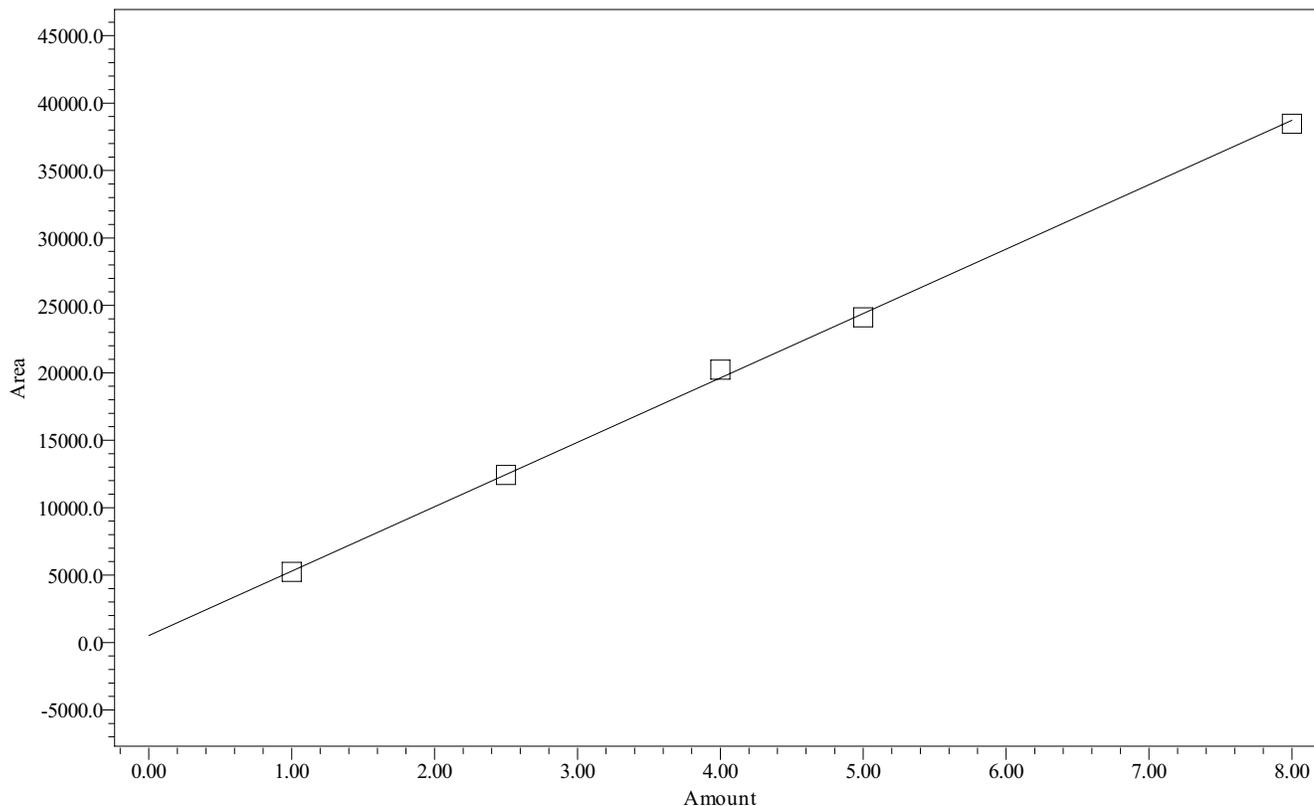
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | TCMX                     | Coefficient constant A:                       | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

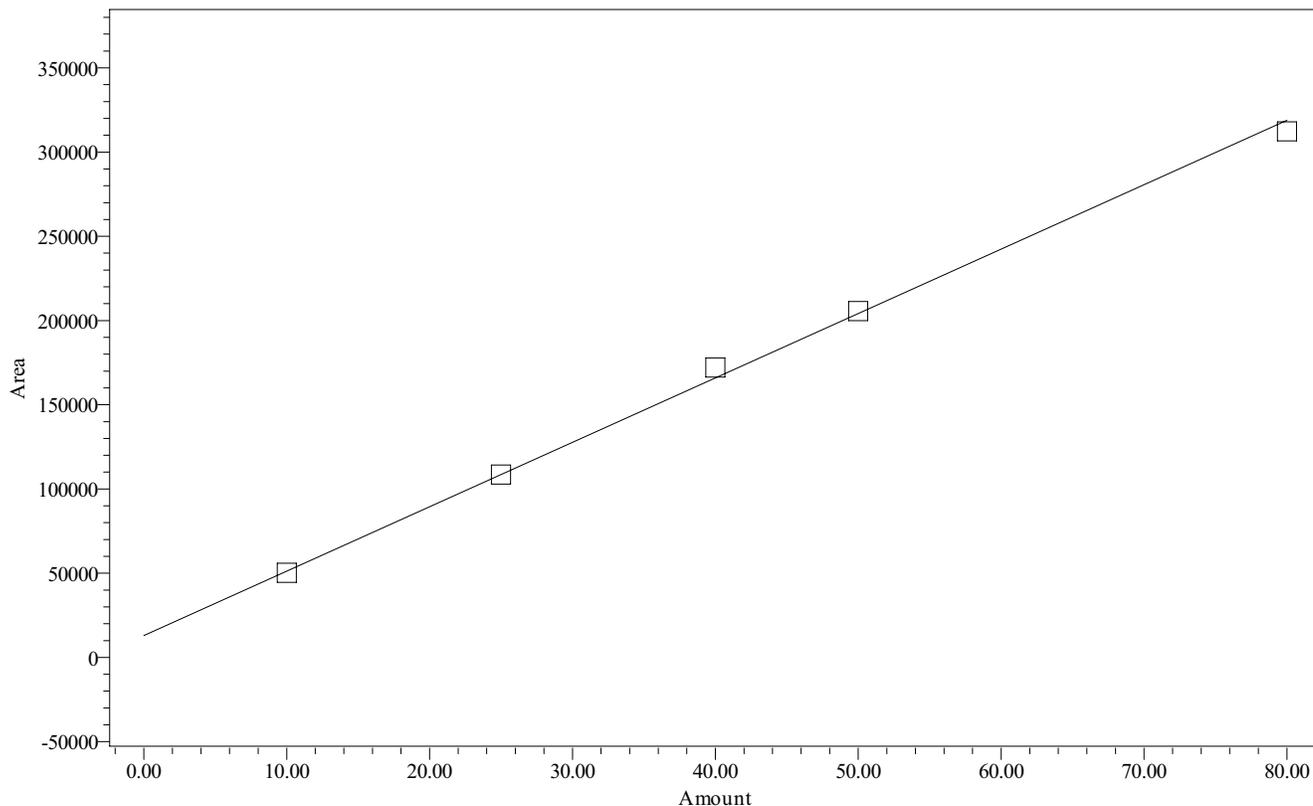
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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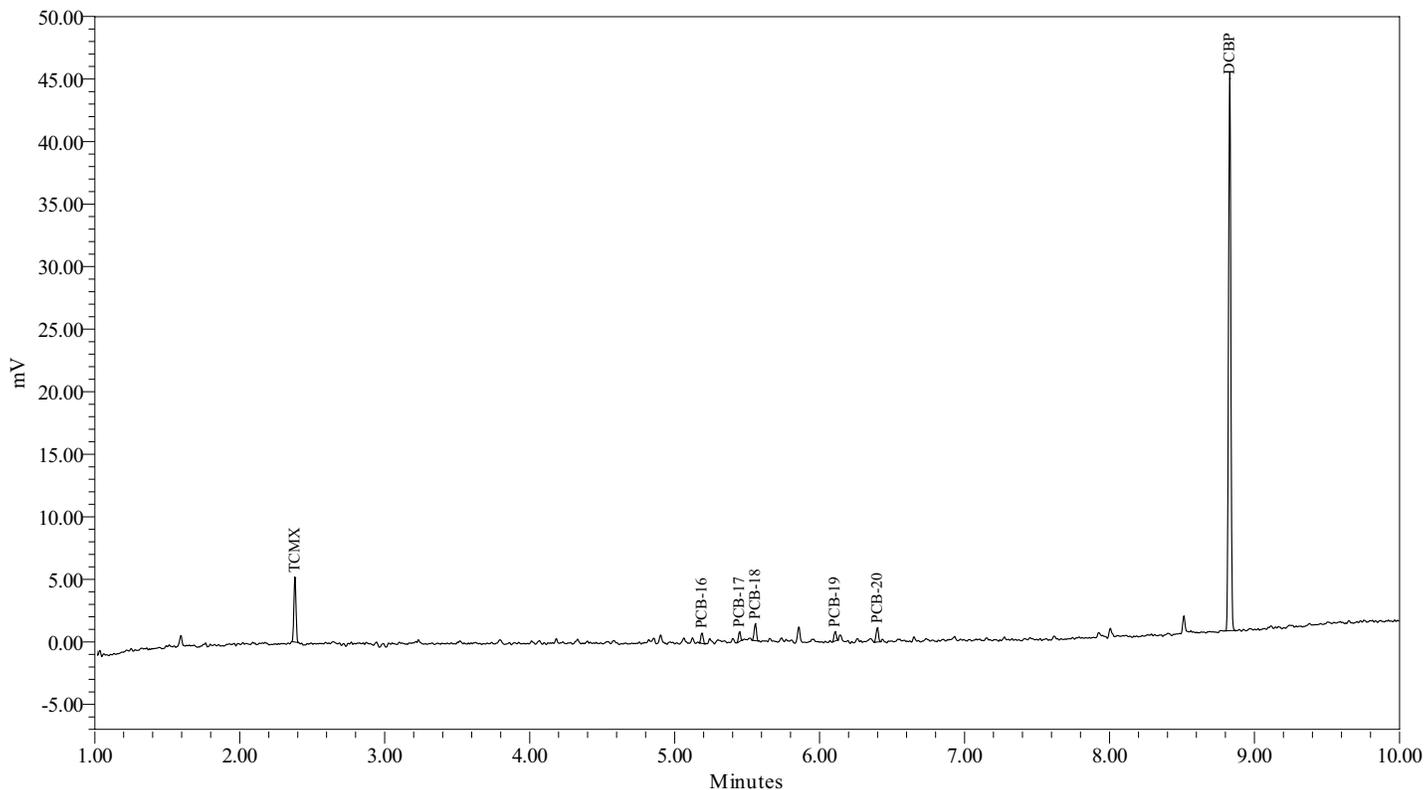
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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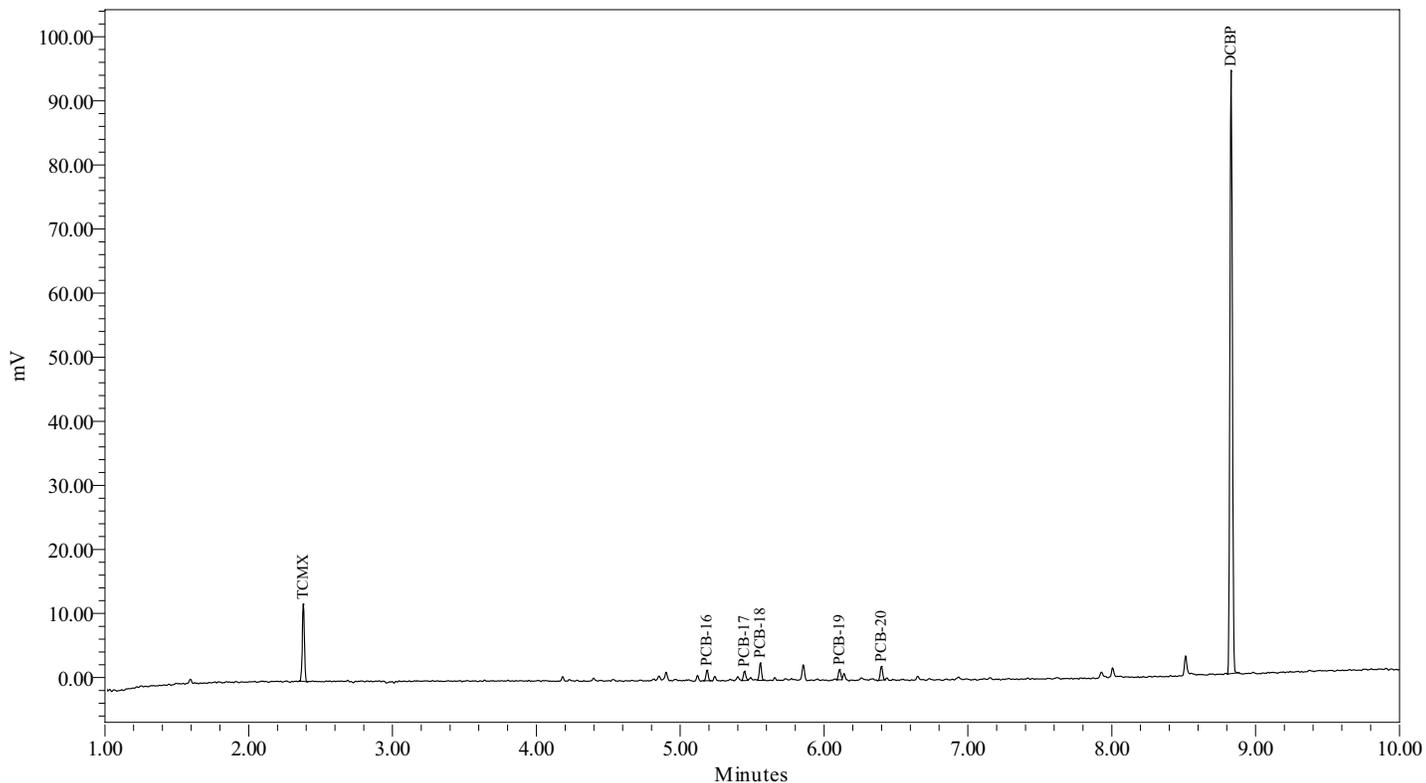
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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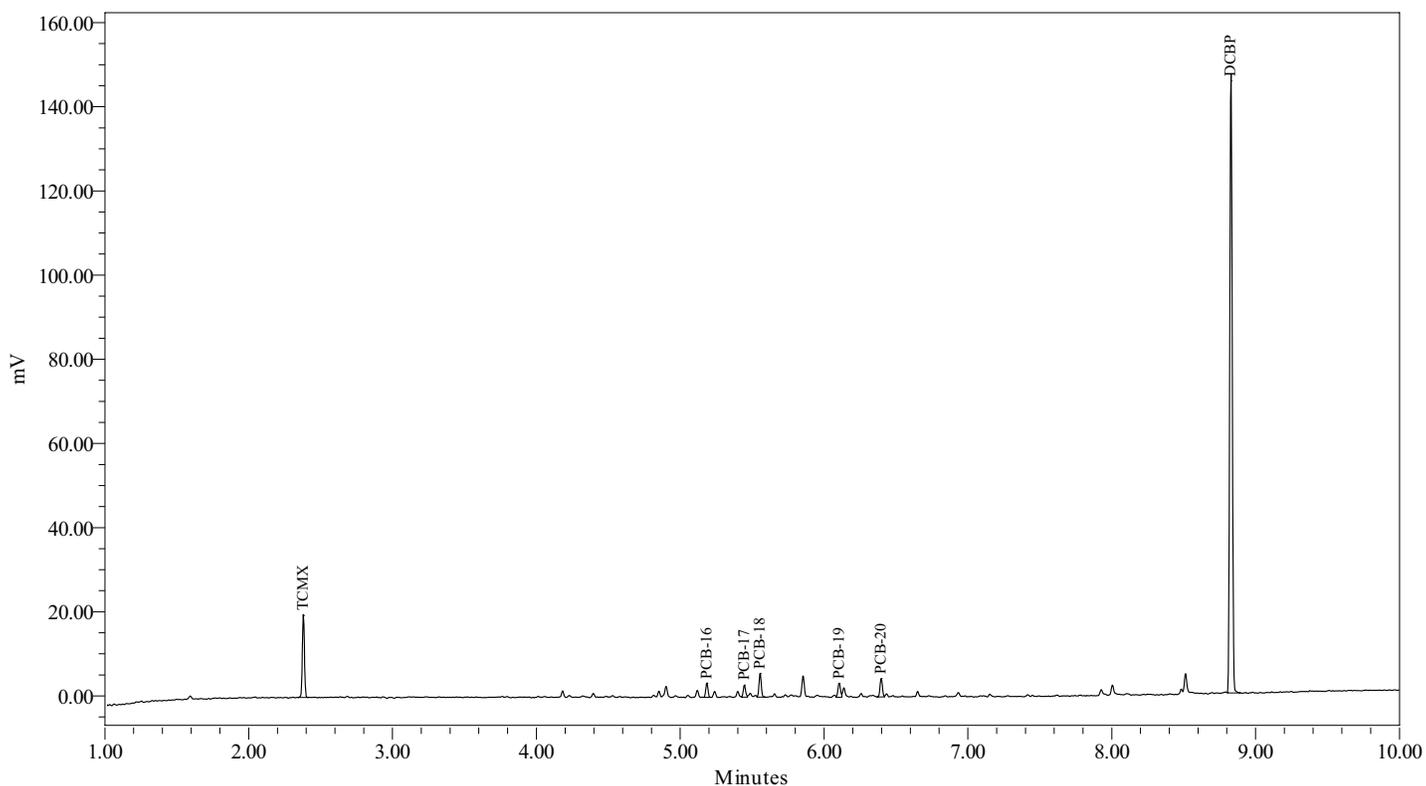
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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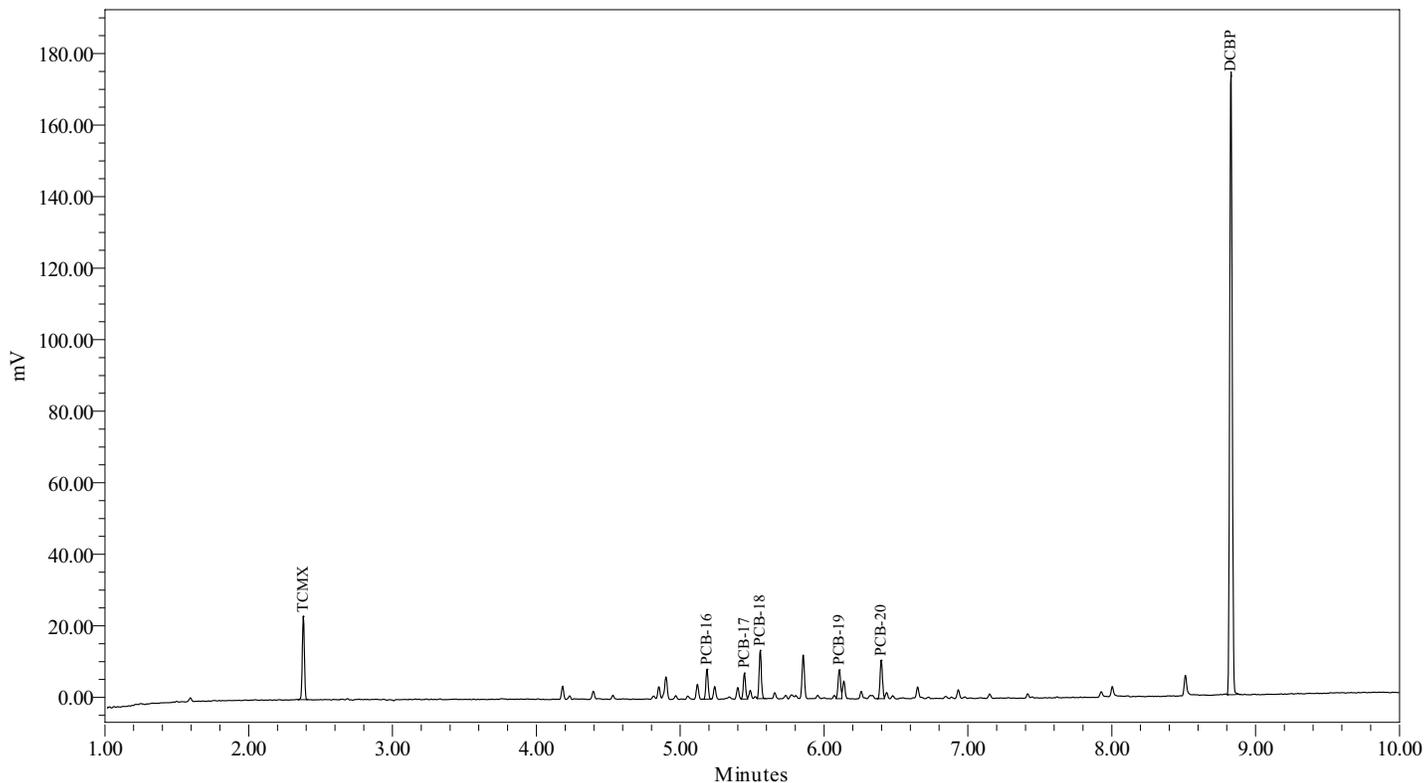
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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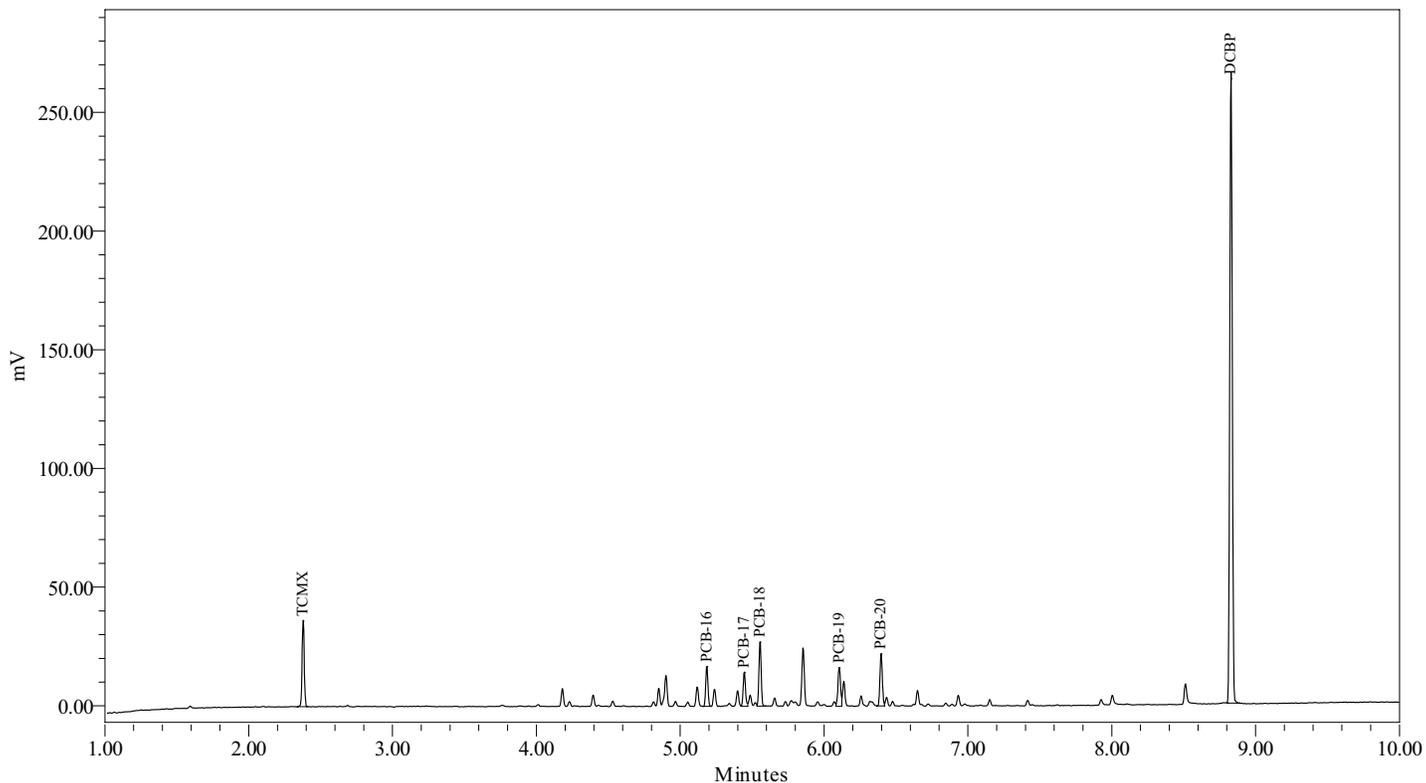
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

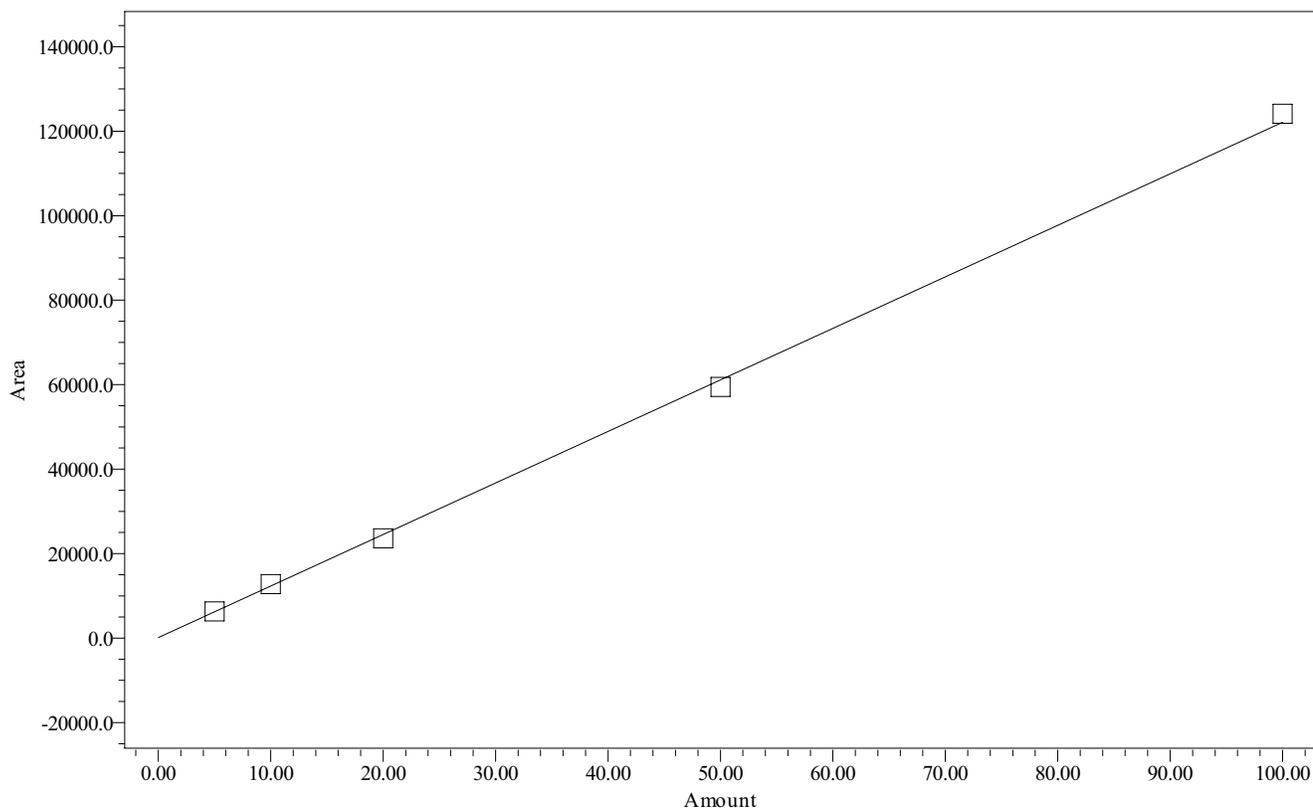
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260                    | Coefficient constant A:           | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

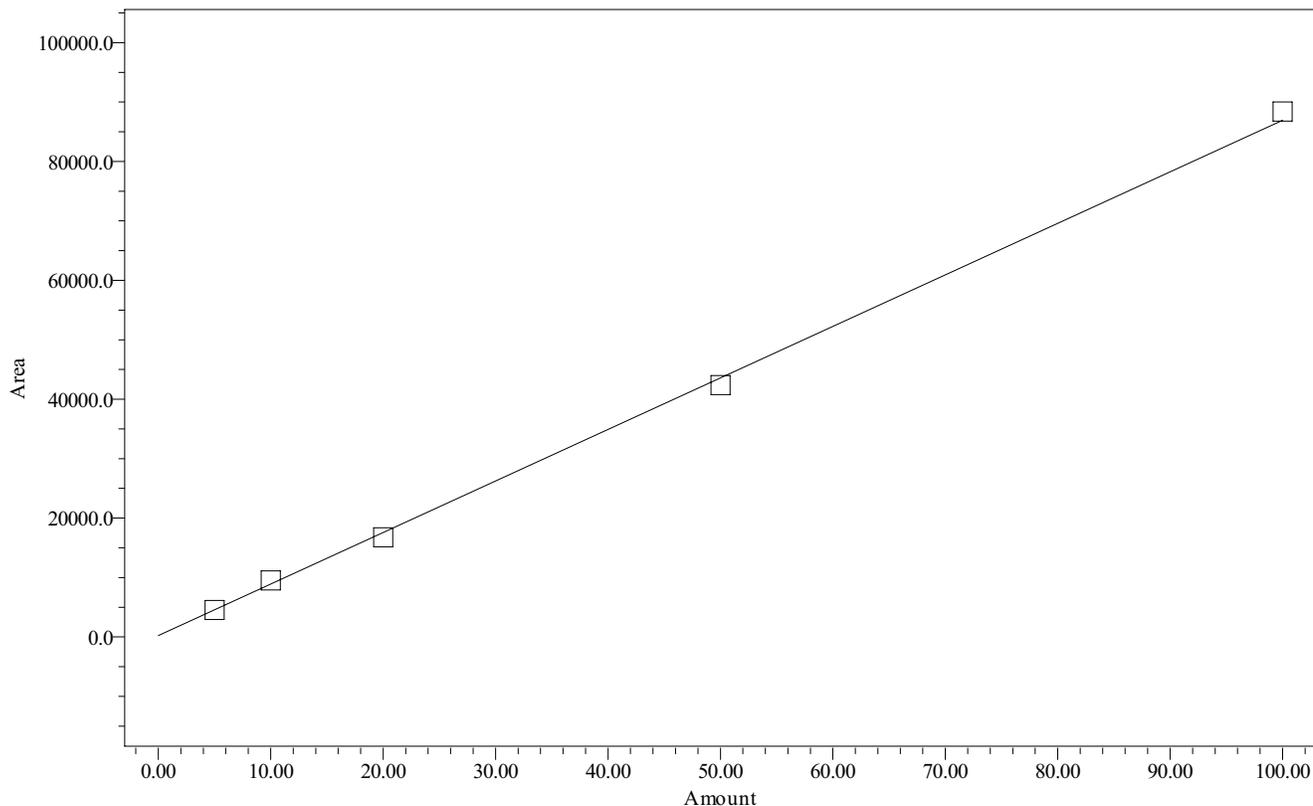
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1260-20                 | Coefficient constant A:                       | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

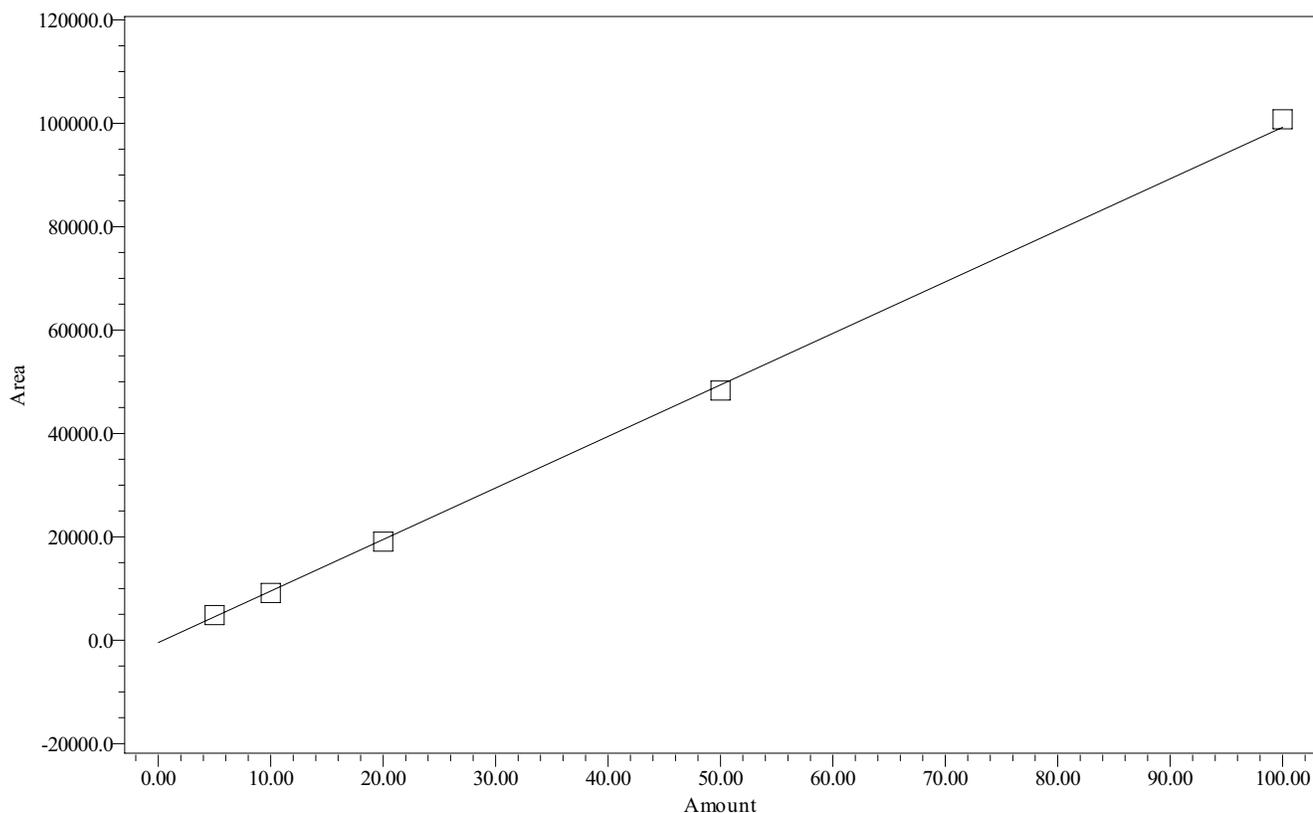
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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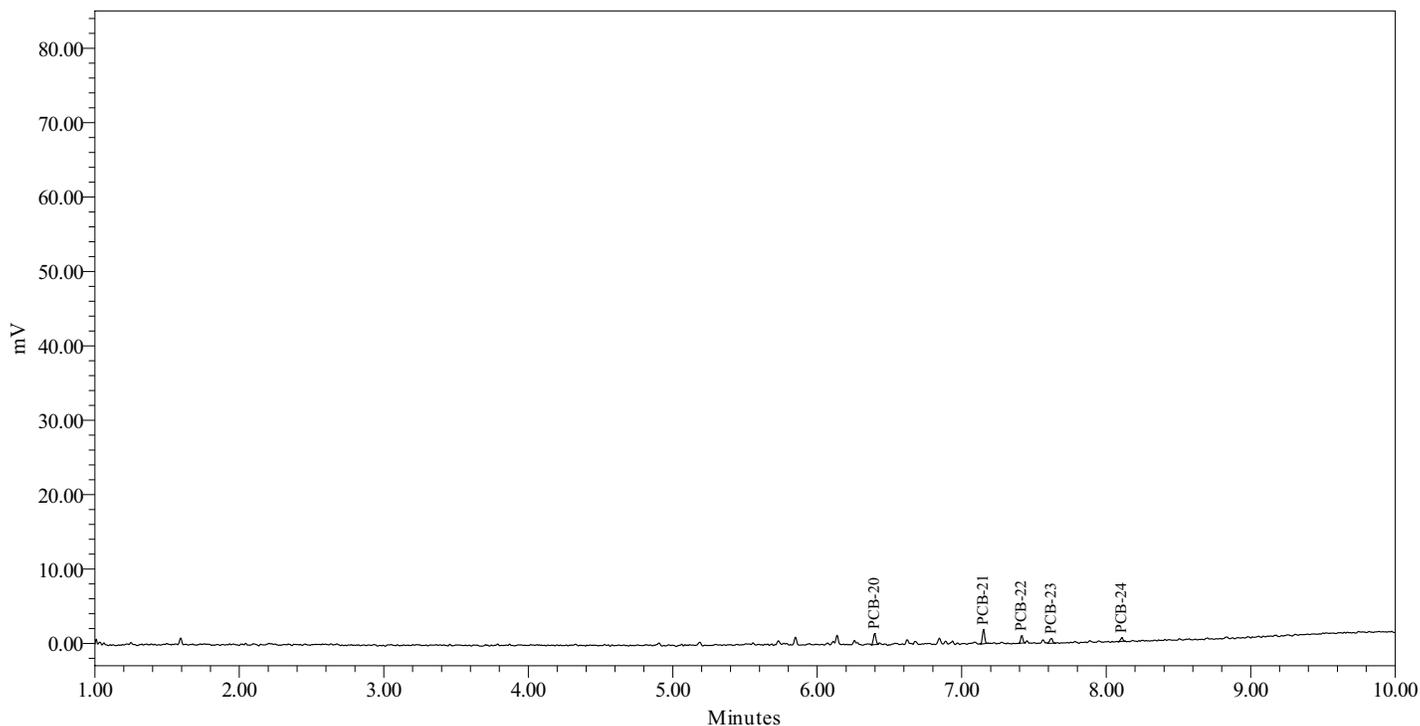
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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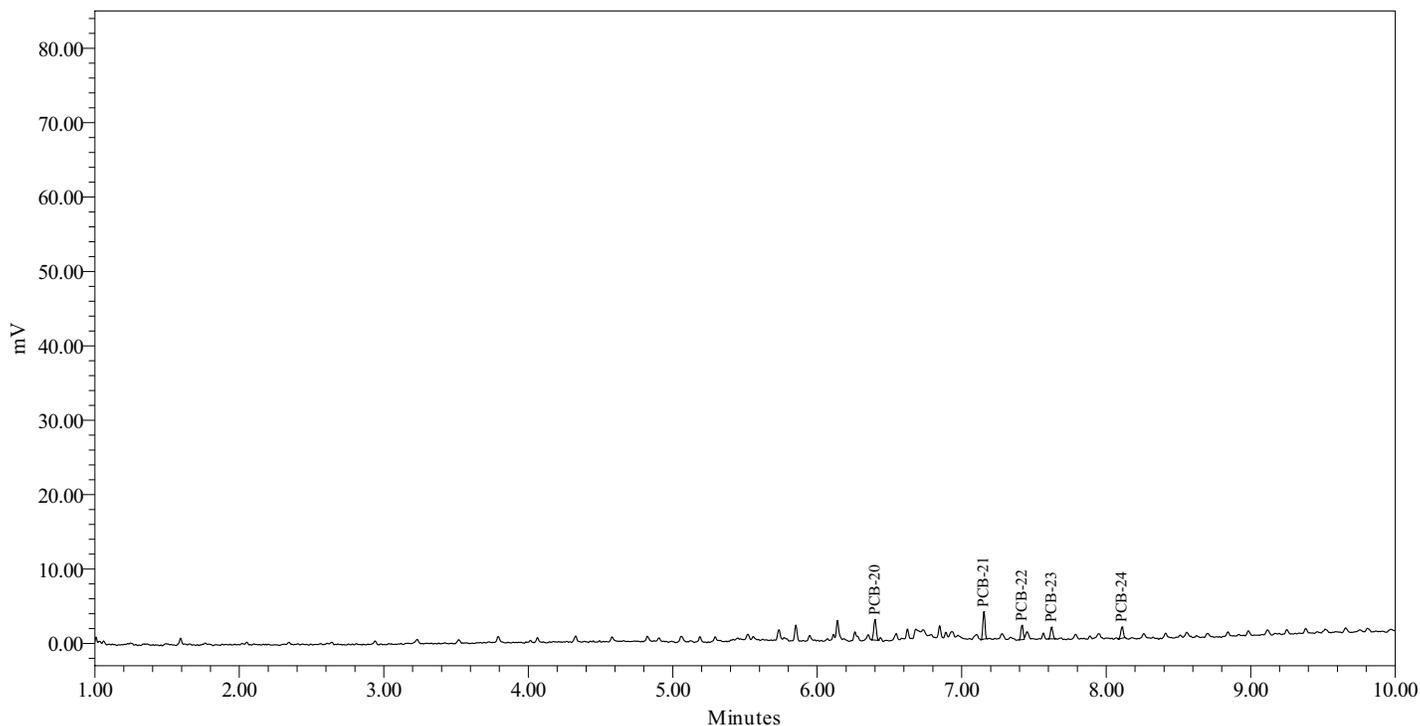
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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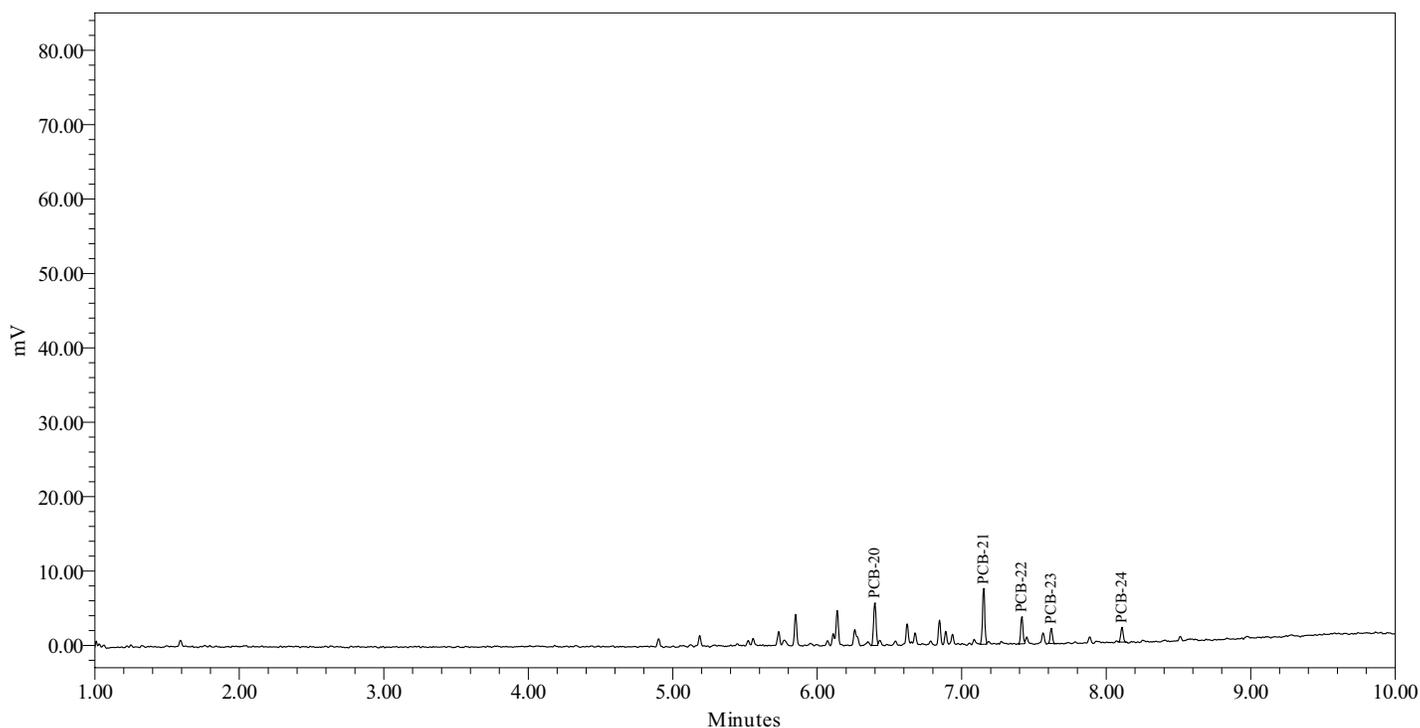
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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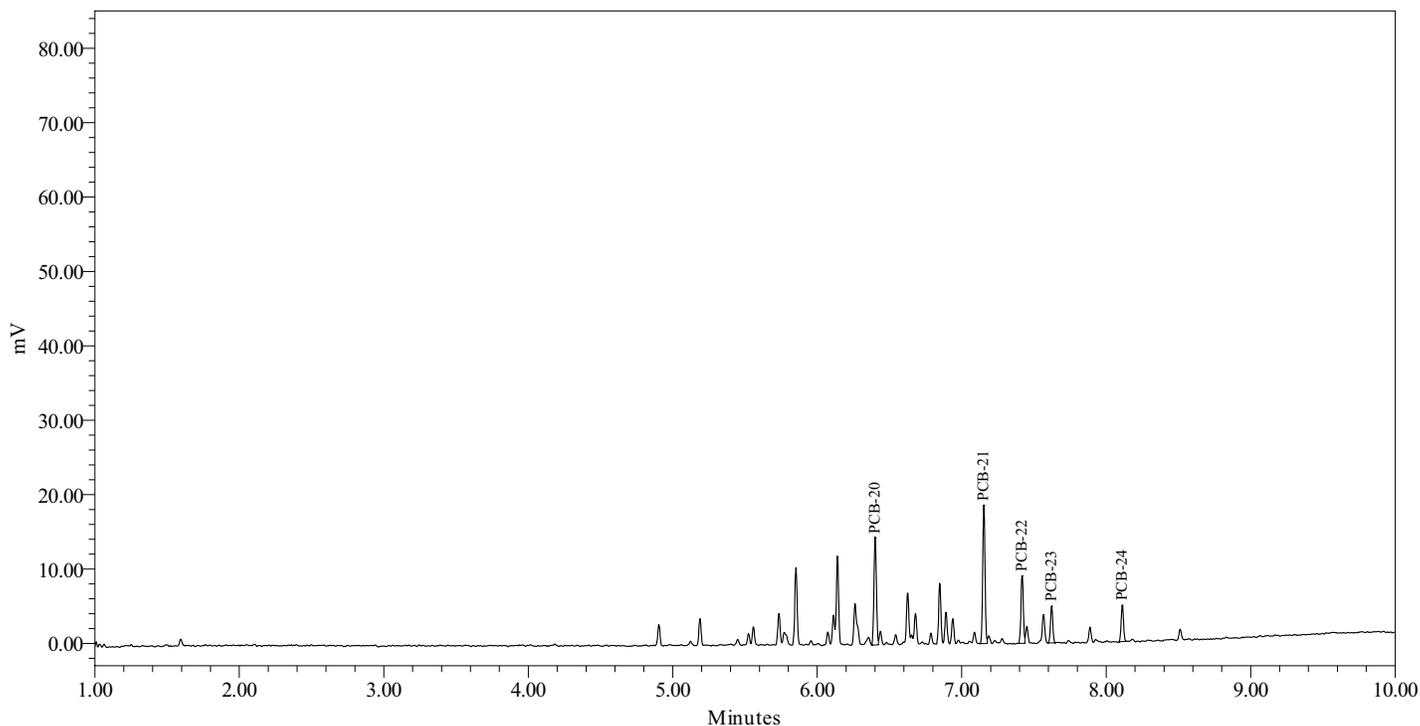
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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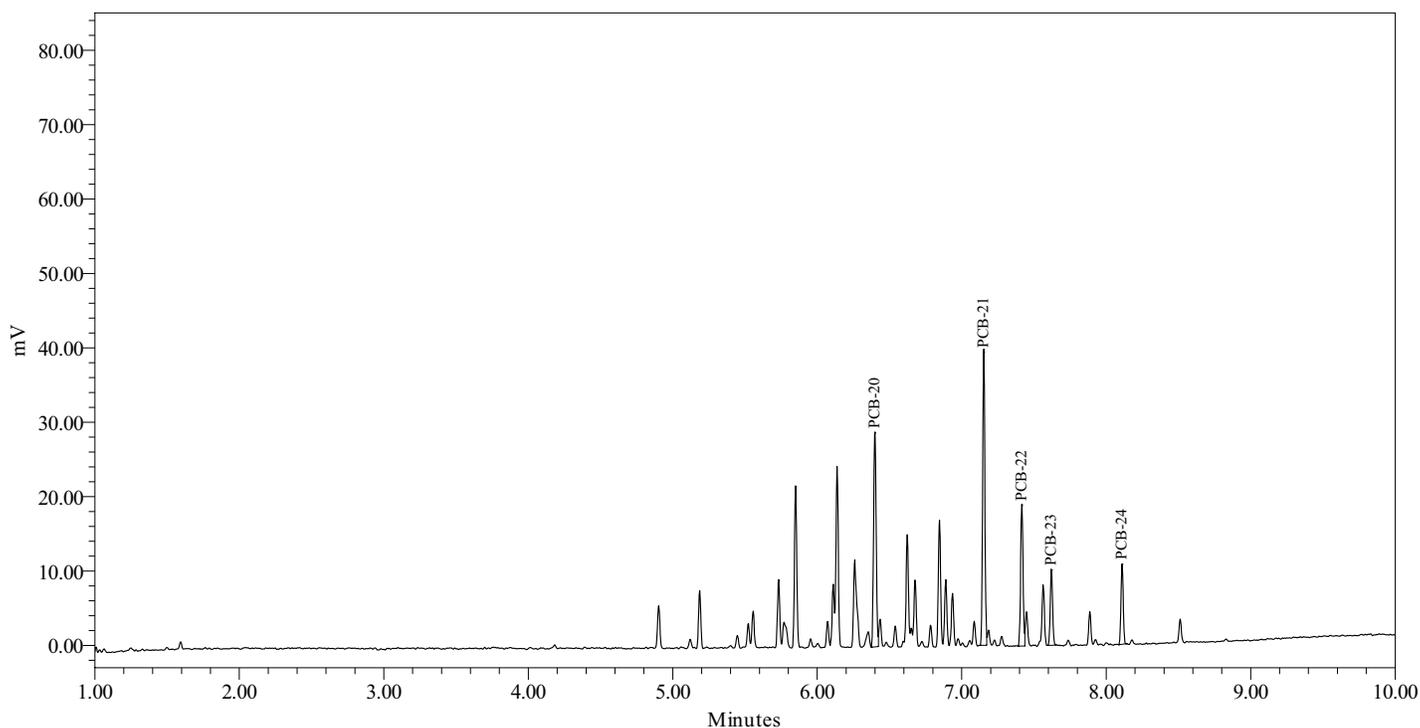
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

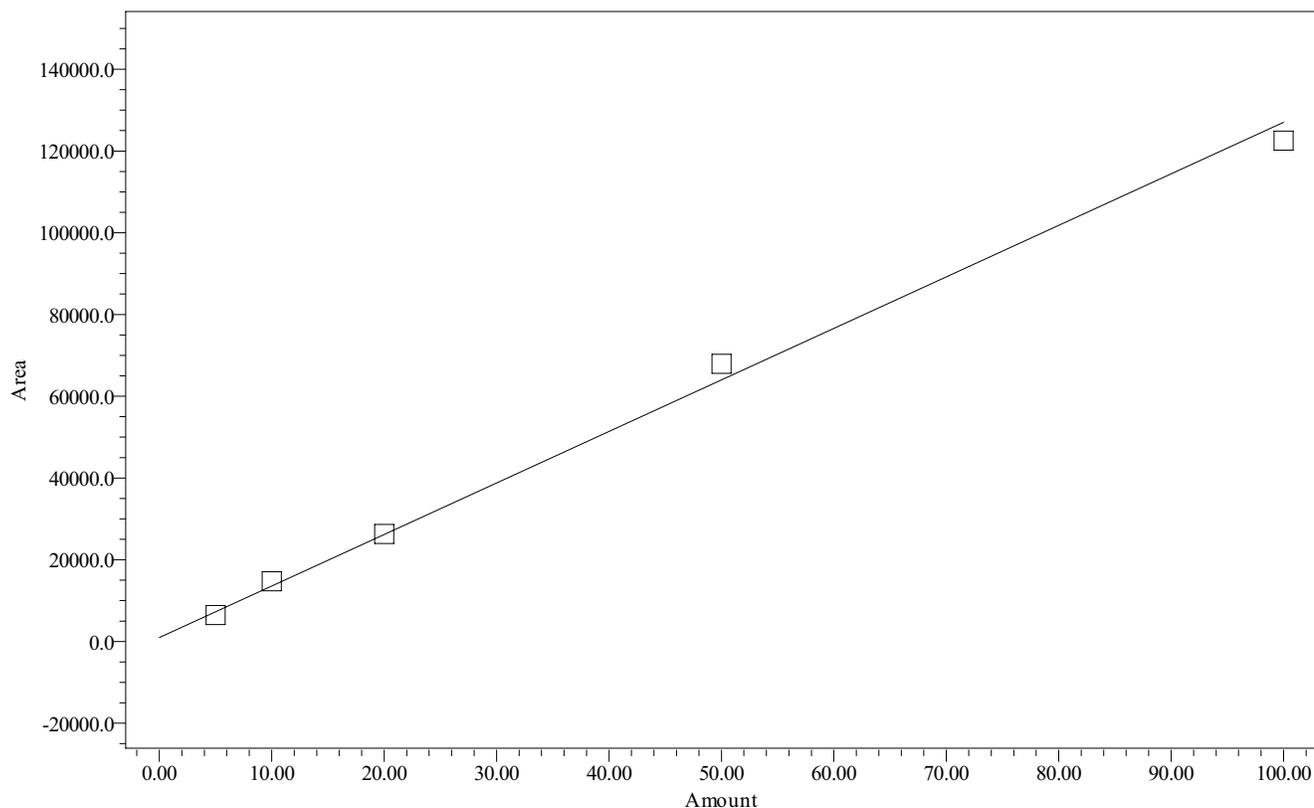
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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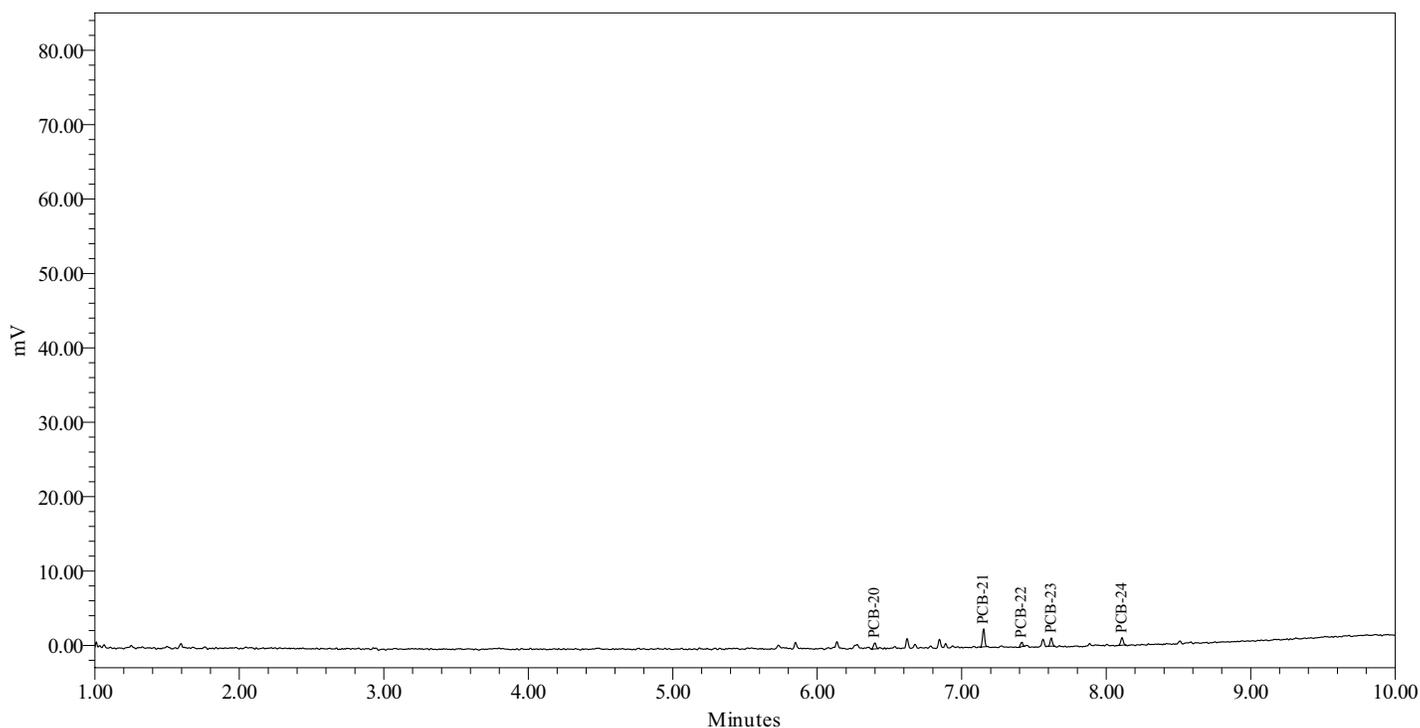
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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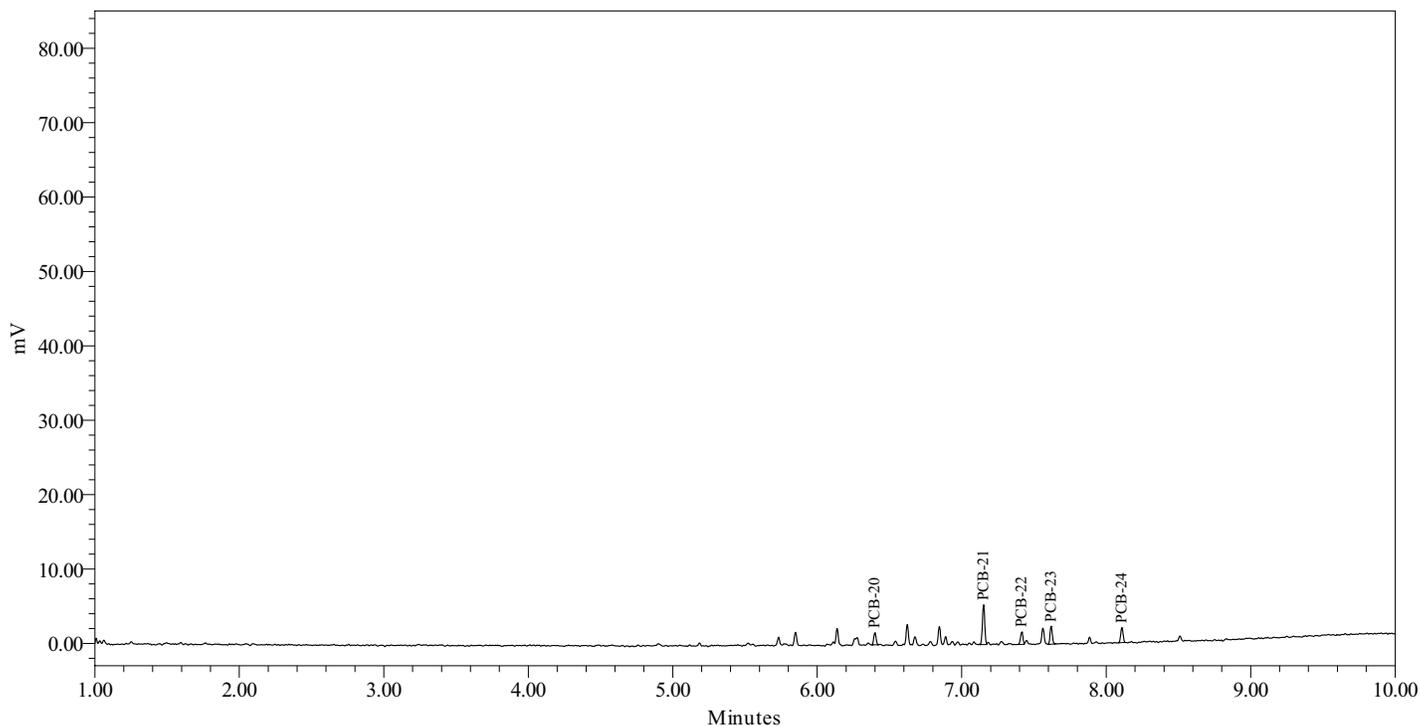
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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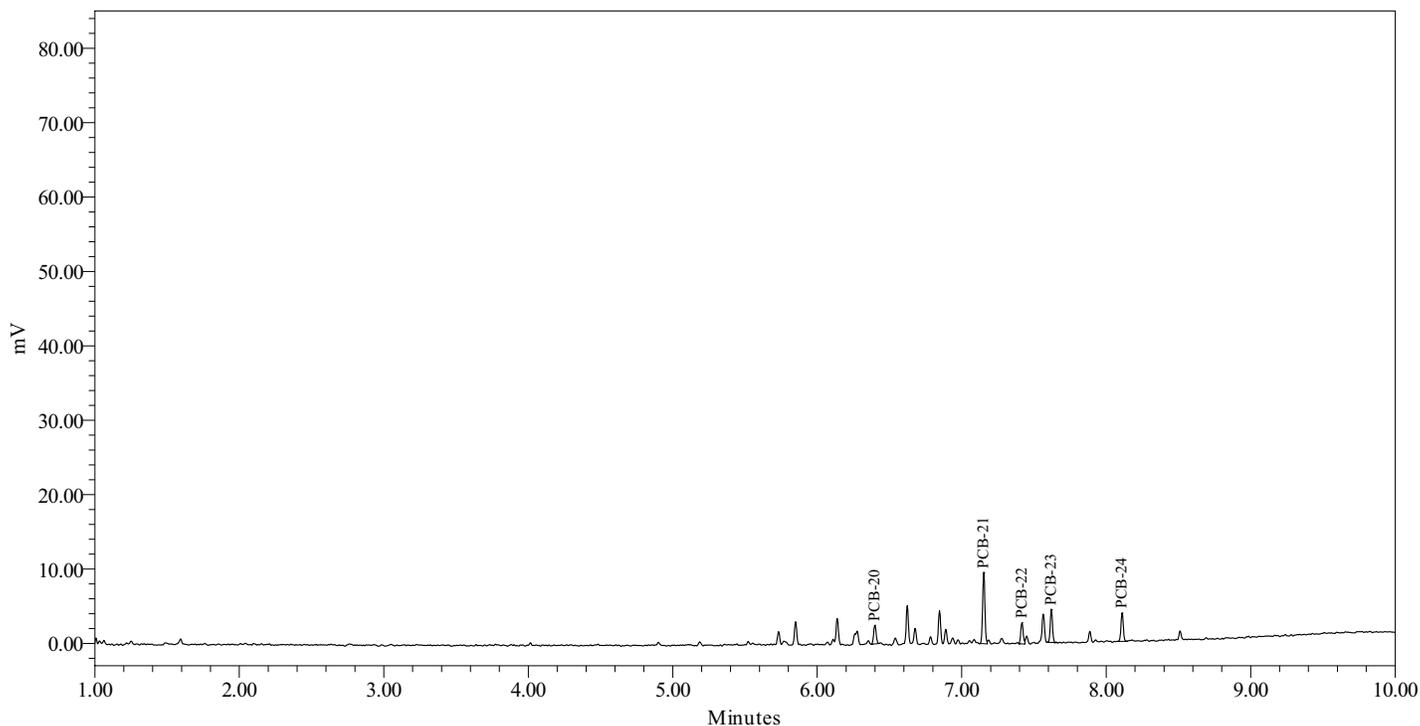
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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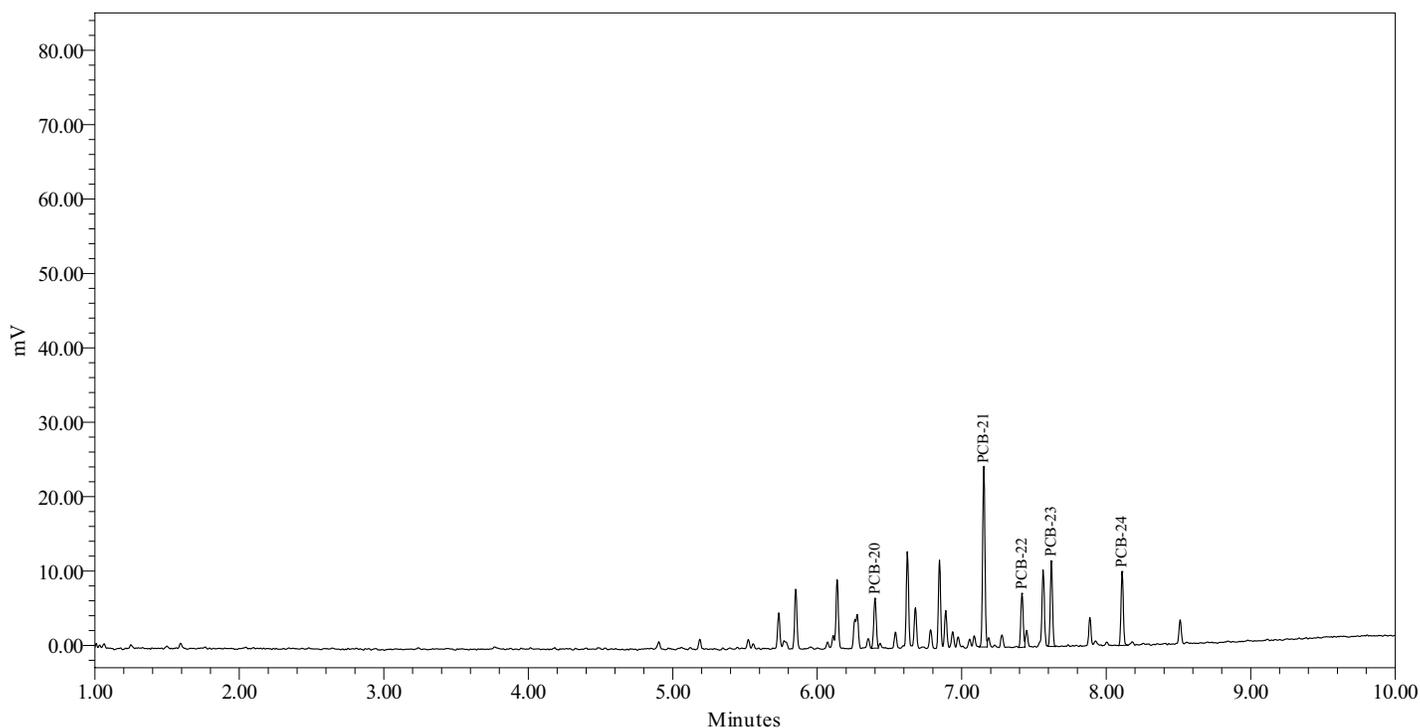
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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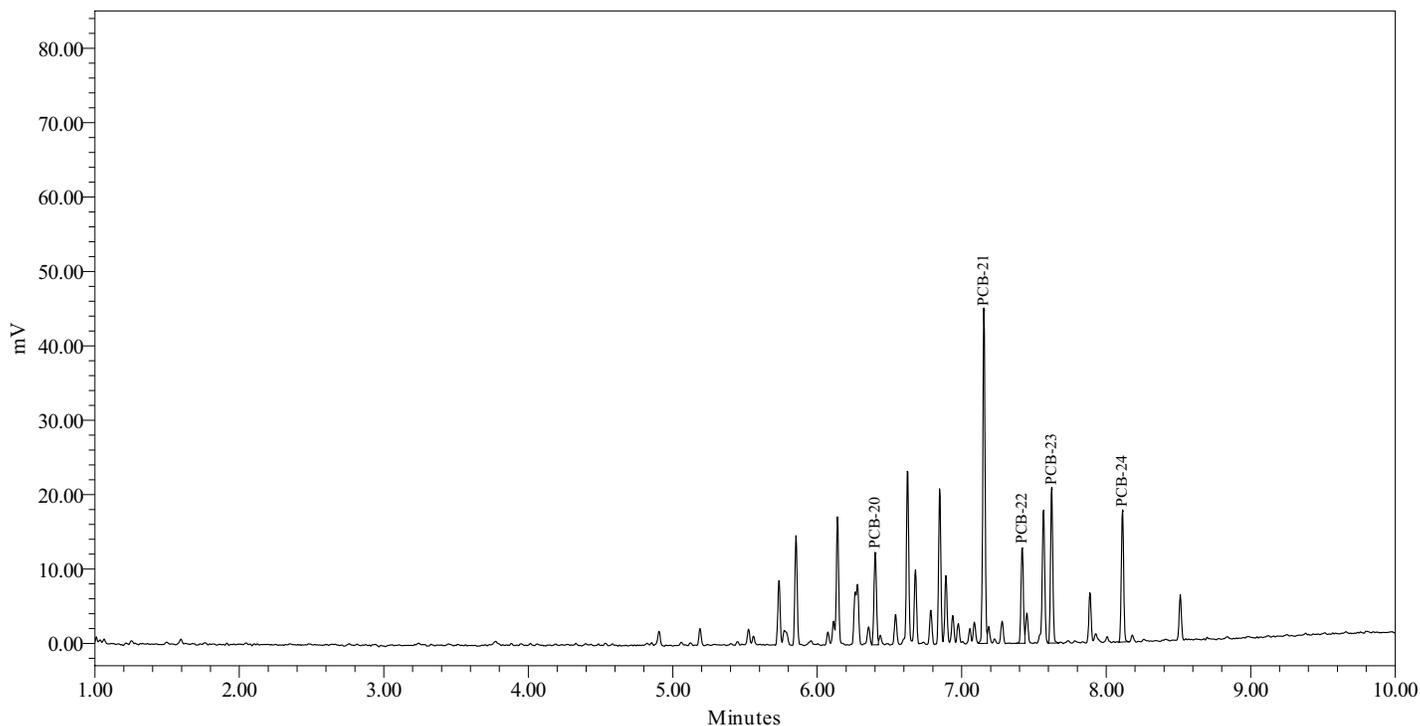
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A1268-23/24 |
|-----------|-------------|-----------|-------------|
| 1         | 031268A     | 2310.2768 | 1362.1525   |
| 2         | 031268B     | 2277.3915 | 1370.7754   |
| 3         | 031268C     | 2475.6188 | 1463.7598   |
| 4         | 031268D     | 2277.1330 | 1356.7050   |
| 5         | 031268E     | 2197.8075 | 1306.0591   |
| Mean      |             | 2307.646  | 1371.890    |
| Std. Dev. |             | 102.631   | 57.229      |
| % RSD     |             | 4.45      | 4.17        |

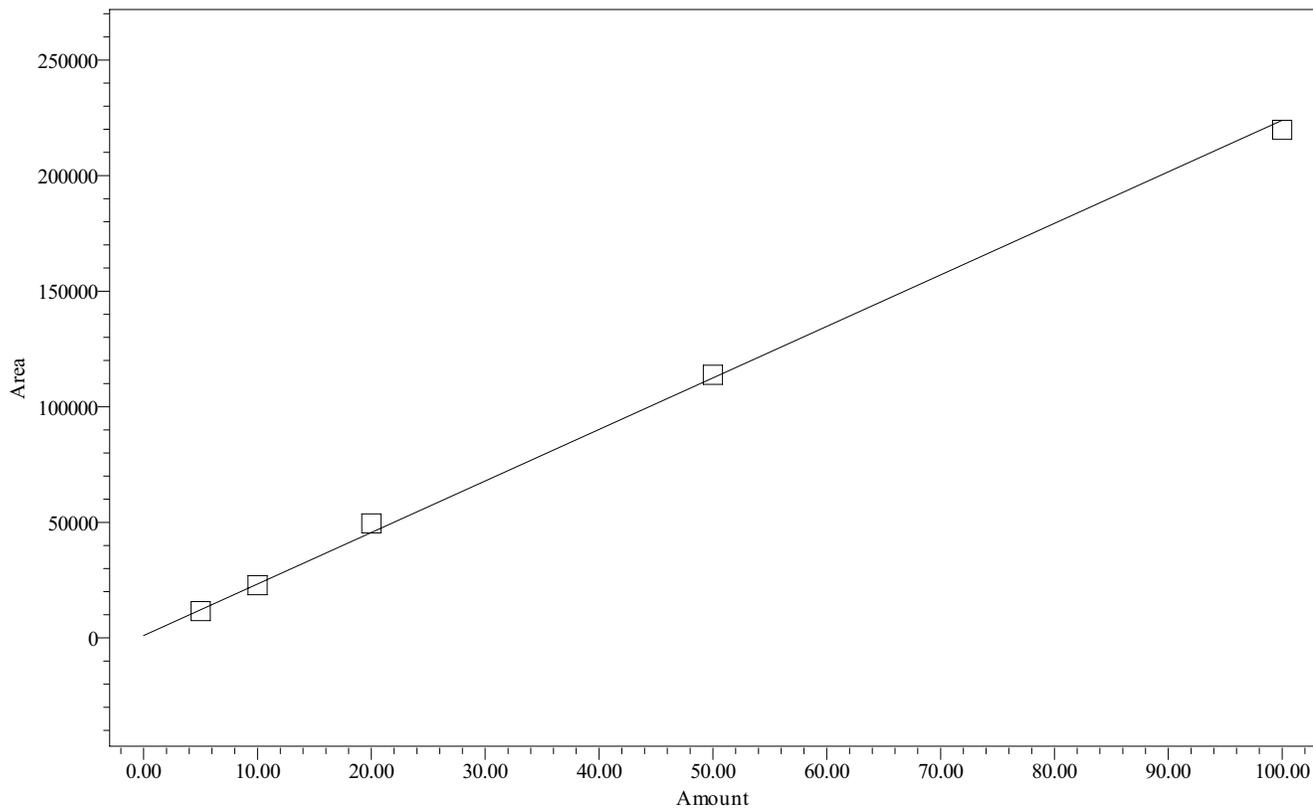
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

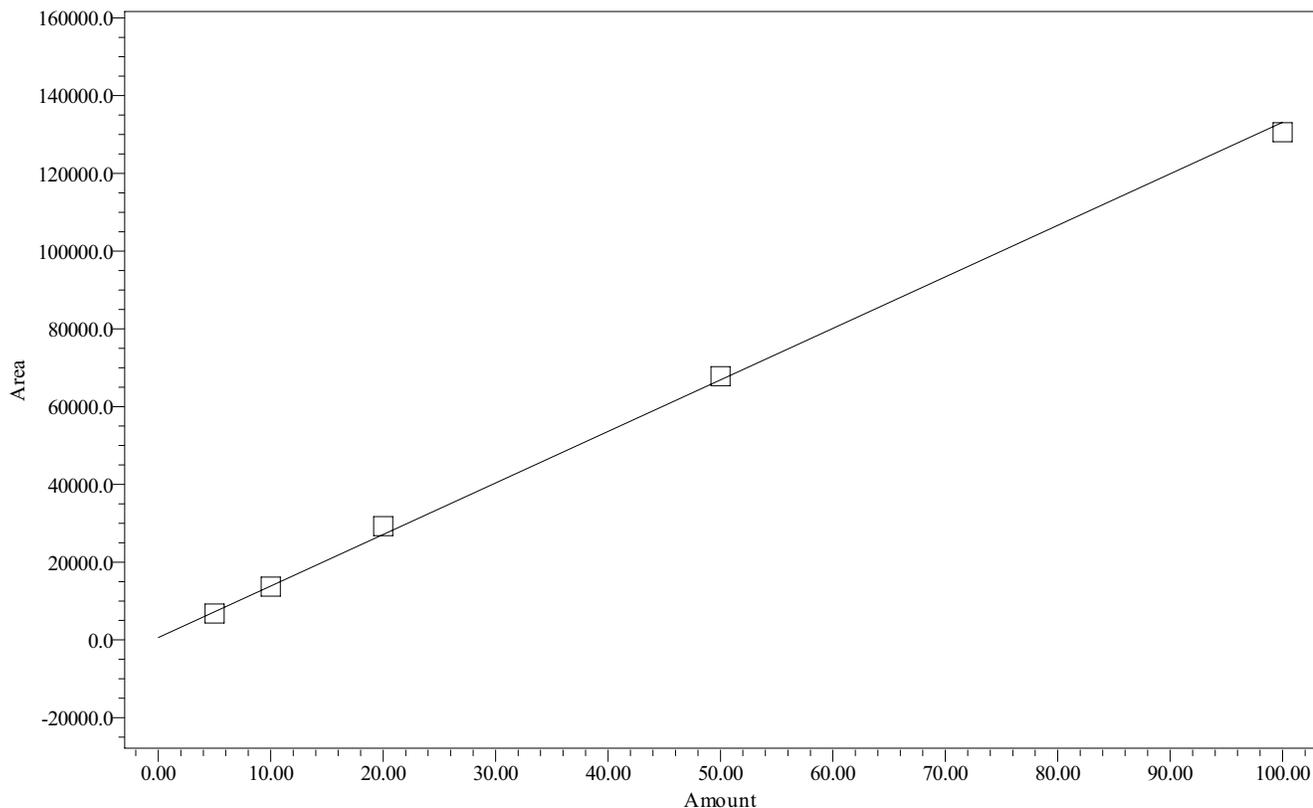
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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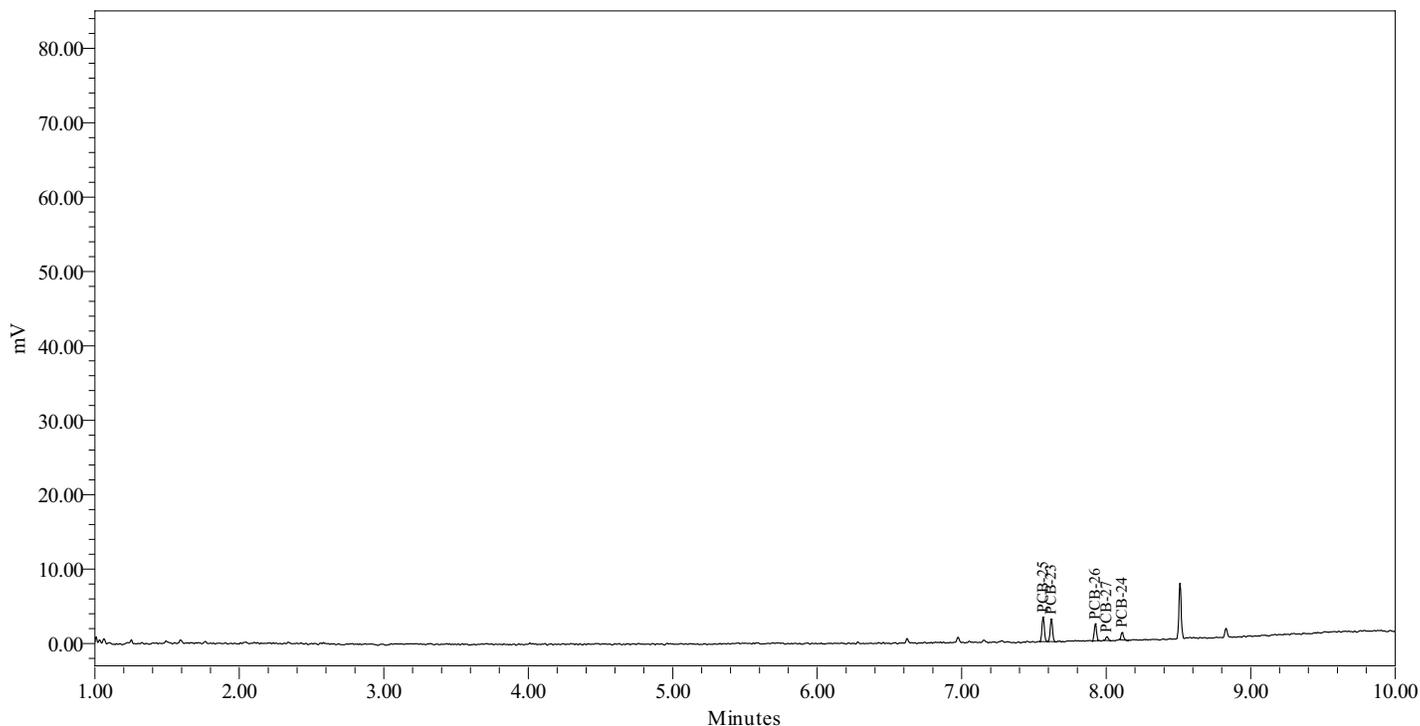
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 3694          |
| 2 PCB-23  | 7.621          | Vb               | 3546          |
| 3 PCB-26  | 7.926          | bb               | 2543          |
| 4 PCB-27  | 8.005          | bb               | 574           |
| 5 PCB-24  | 8.110          | bb               | 1194          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 4741                |                      |
| 2 A1260-20    | 4741                |                      |
| 3 A1262       | 4741                |                      |
| 4 A1268       | 11551               | 5.000                |
| 5 A1268-23/24 | 6811                | 5.000                |



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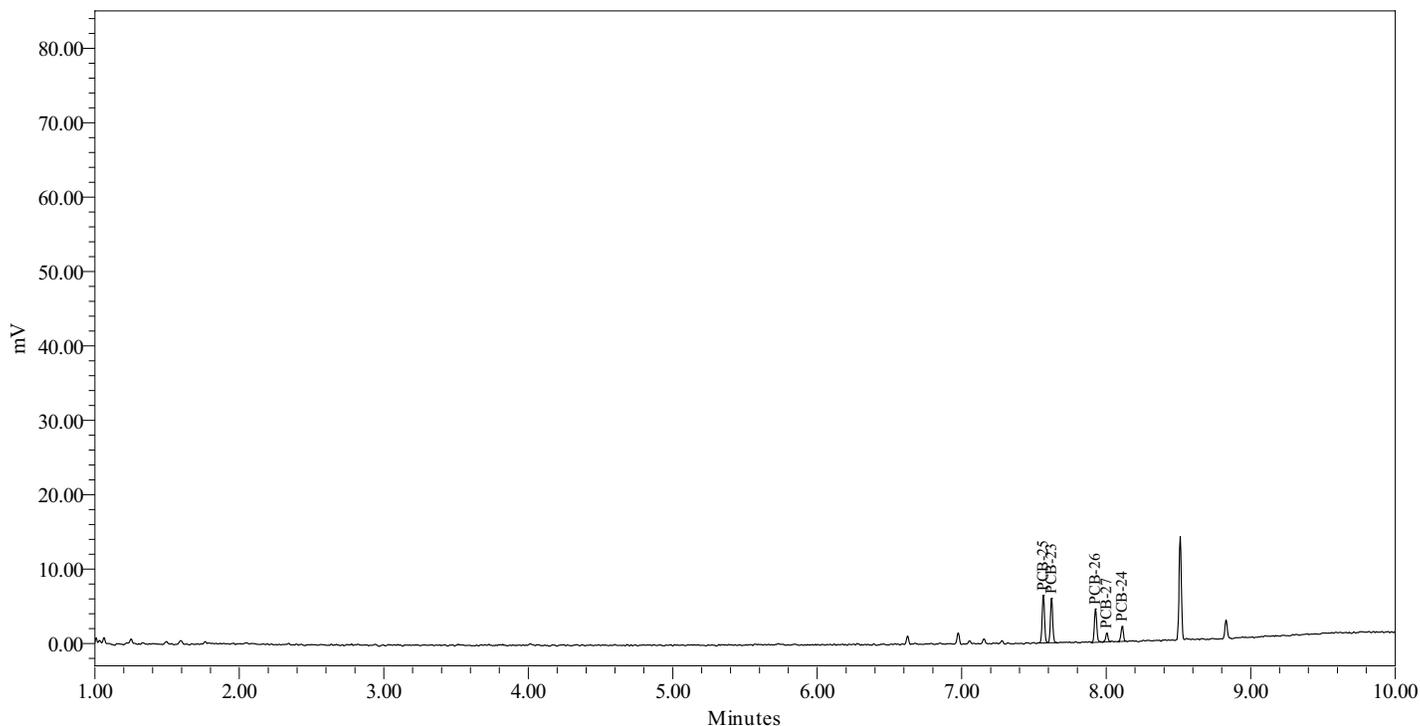
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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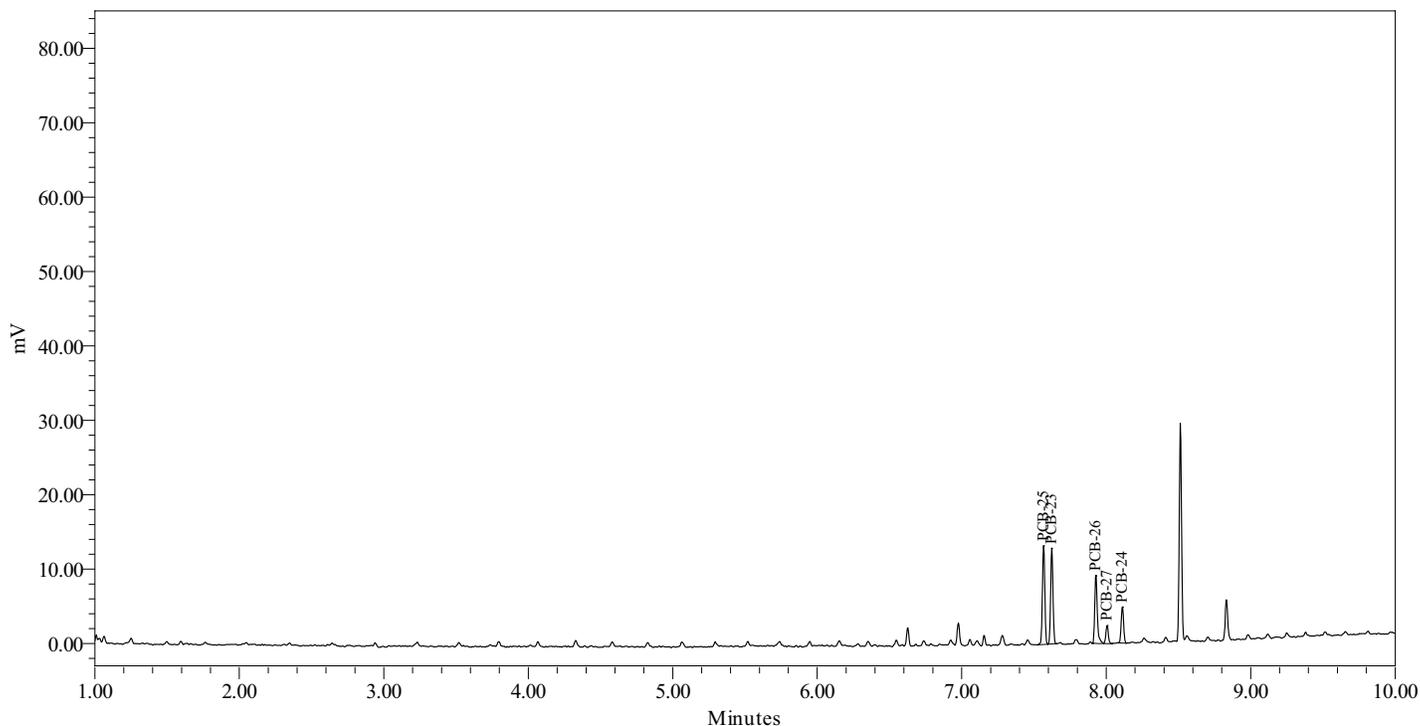
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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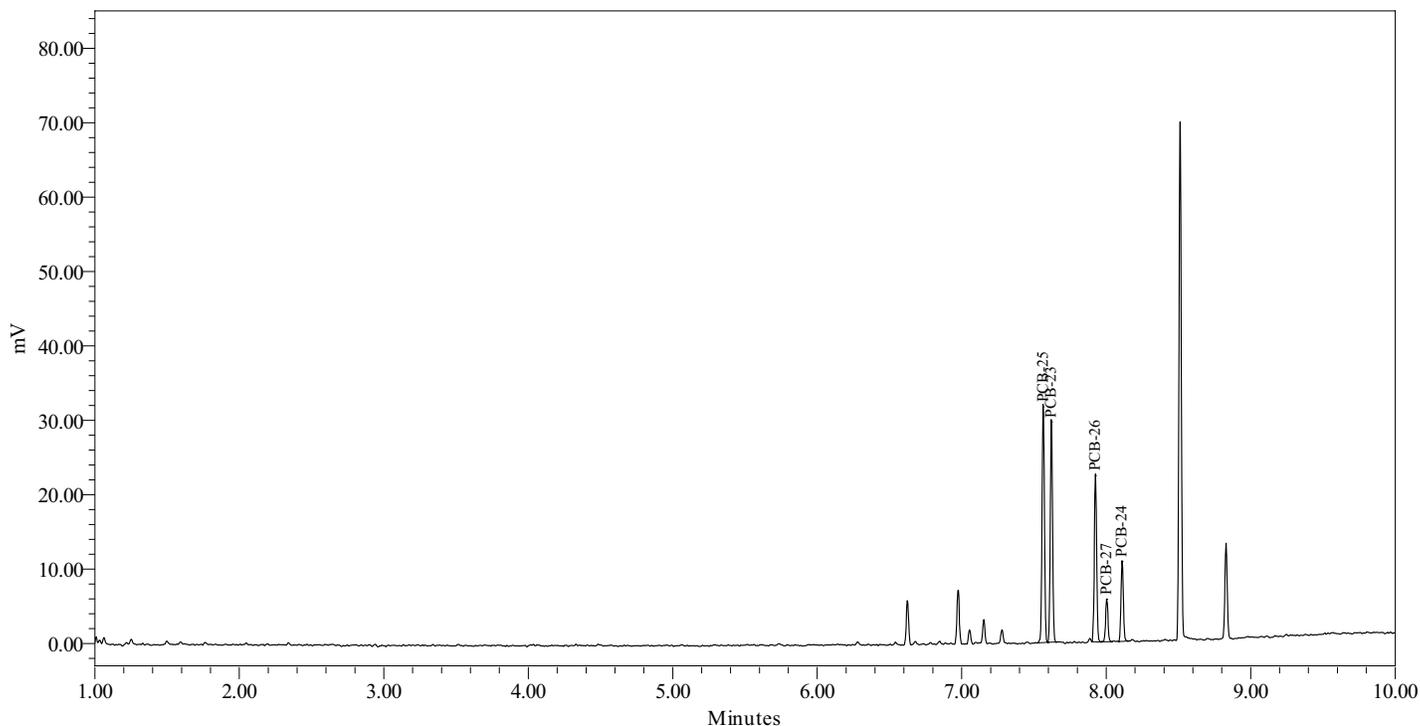
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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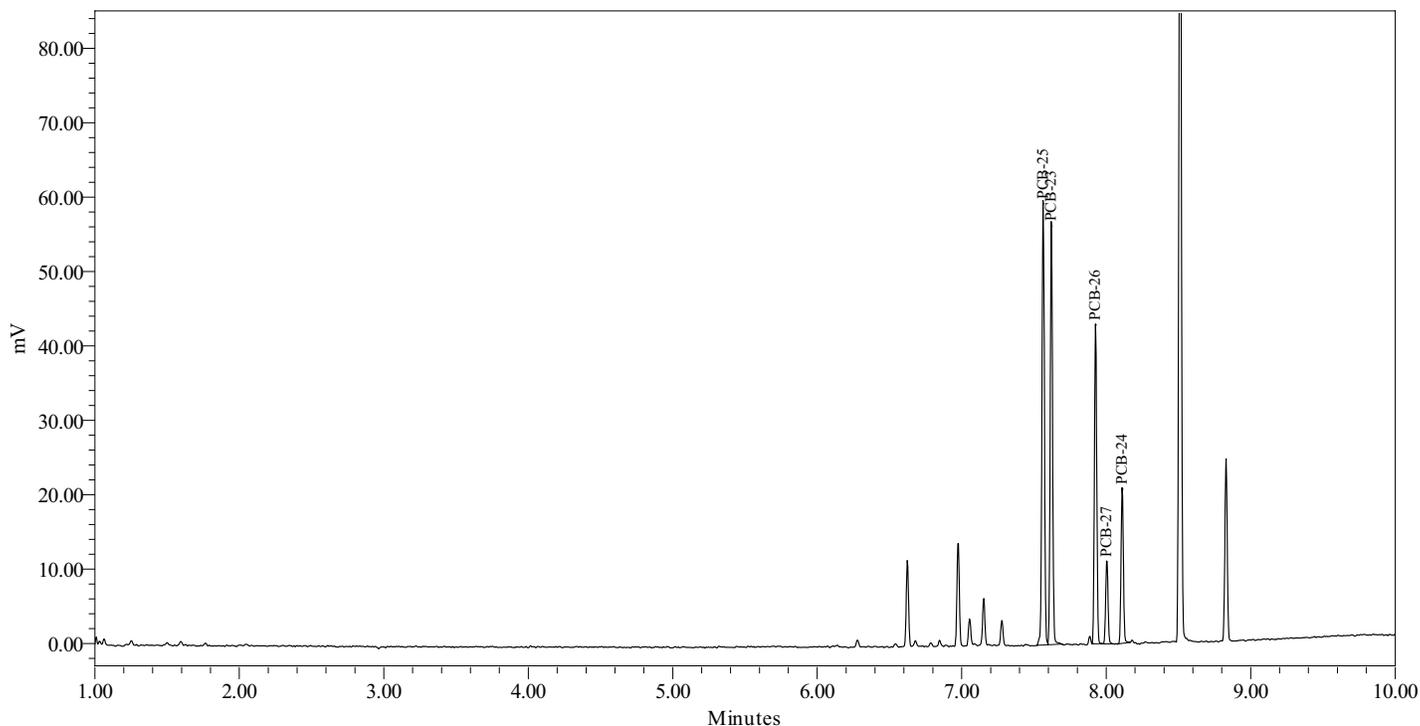
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



11

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060190

ELAP ID No: 11078

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1248 | GC28F-1637-14 | CS480608A     | CCV        | 51.6                | 50                 | 3.25               |   | 06/08/2015 11:34:22  |
| Aroclor 1254 | GC28F-1637-23 | CS540608A     | CCV        | 53.1                | 50                 | 6.16               |   | 06/08/2015 14:28:27  |
| Aroclor 1260 | GC28F-1637-34 | CS600608A     | CCV        | 54.9                | 50                 | 9.84               |   | 06/08/2015 17:39:07  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060190

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060190

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060190

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1248 | GC28F-1637-14 | CS480608A     | CCV         | 1    | 4.22 | 4.15      | 4.31 |
|              |               | CS480608A     | CCV         | 2    | 4.52 | 4.45      | 4.61 |
|              |               | CS480608A     | CCV         | 3    | 4.80 | 4.74      | 4.90 |
|              |               | CS480608A     | CCV         | 4    | 4.87 | 4.81      | 4.97 |
|              |               | CS480608A     | CCV         | 5    | 5.04 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1637-23 | CS540608A     | CCV         | 1    | 5.17 | 5.11      | 5.27 |
|              |               | CS540608A     | CCV         | 2    | 5.43 | 5.37      | 5.53 |
|              |               | CS540608A     | CCV         | 3    | 5.54 | 5.48      | 5.64 |
|              |               | CS540608A     | CCV         | 4    | 6.09 | 6.03      | 6.19 |
|              |               | CS540608A     | CCV         | 5    | 6.38 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1637-34 | CS600608A     | CCV         | 1    | 6.39 | 6.32      | 6.48 |
|              |               | CS600608A     | CCV         | 2    | 7.14 | 7.07      | 7.23 |
|              |               | CS600608A     | CCV         | 3    | 7.40 | 7.34      | 7.50 |
|              |               | CS600608A     | CCV         | 4    | 7.61 | 7.54      | 7.70 |
|              |               | CS600608A     | CCV         | 5    | 8.10 | 8.03      | 8.19 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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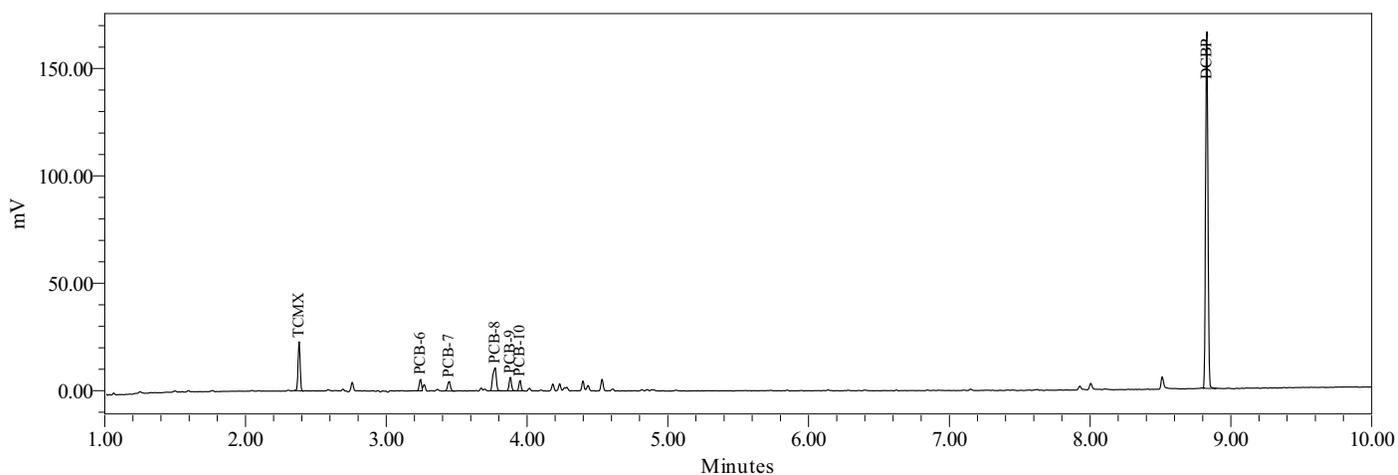
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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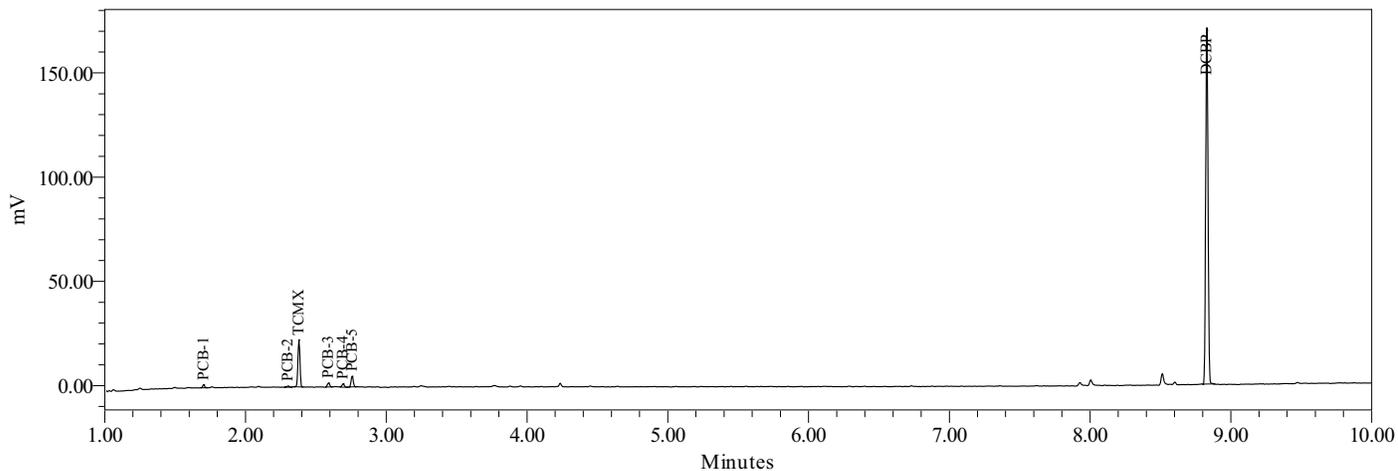
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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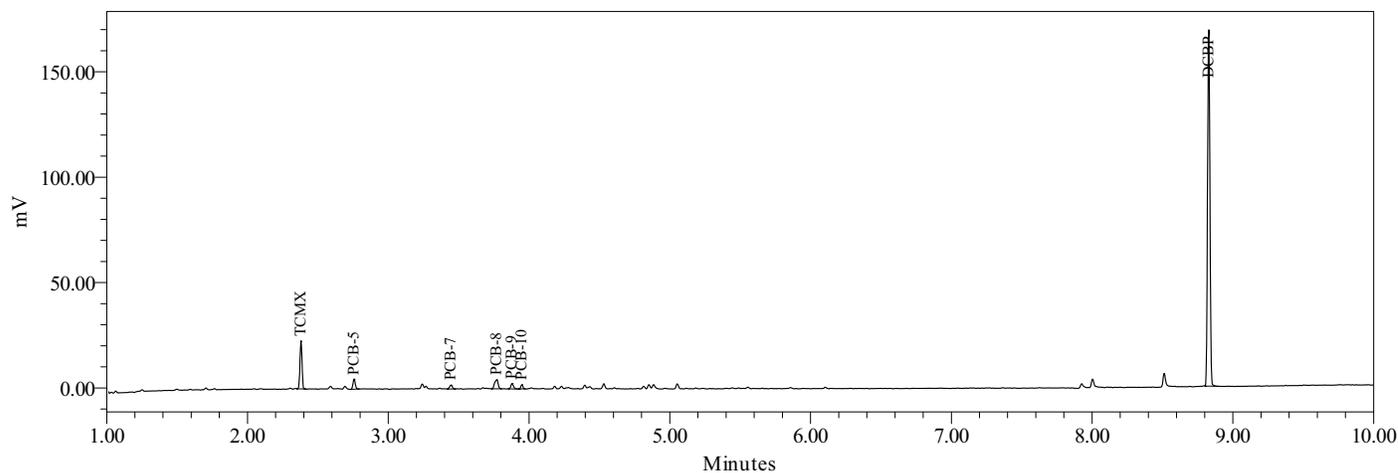
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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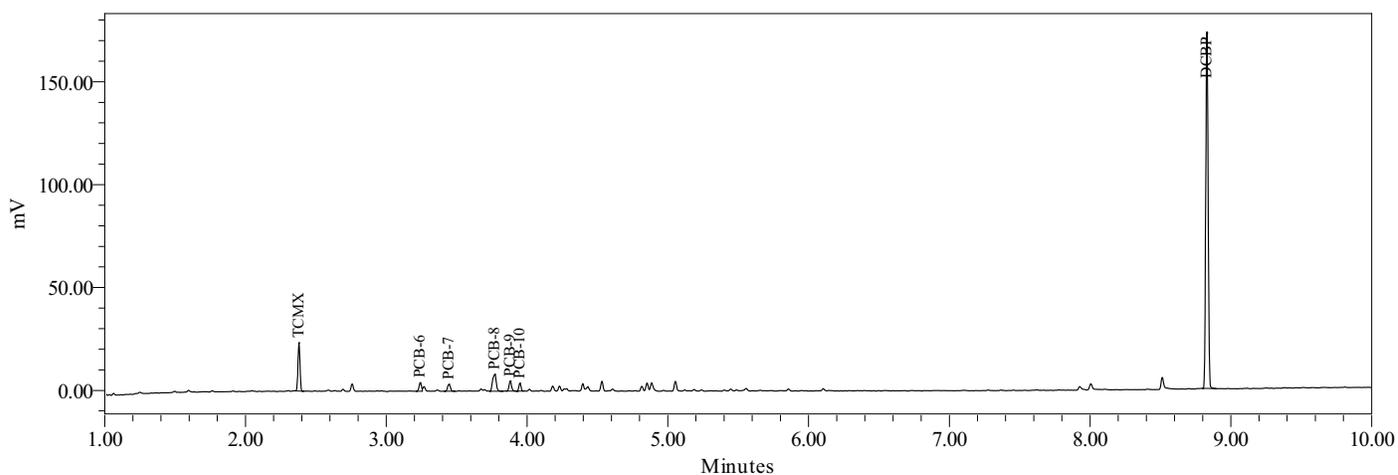
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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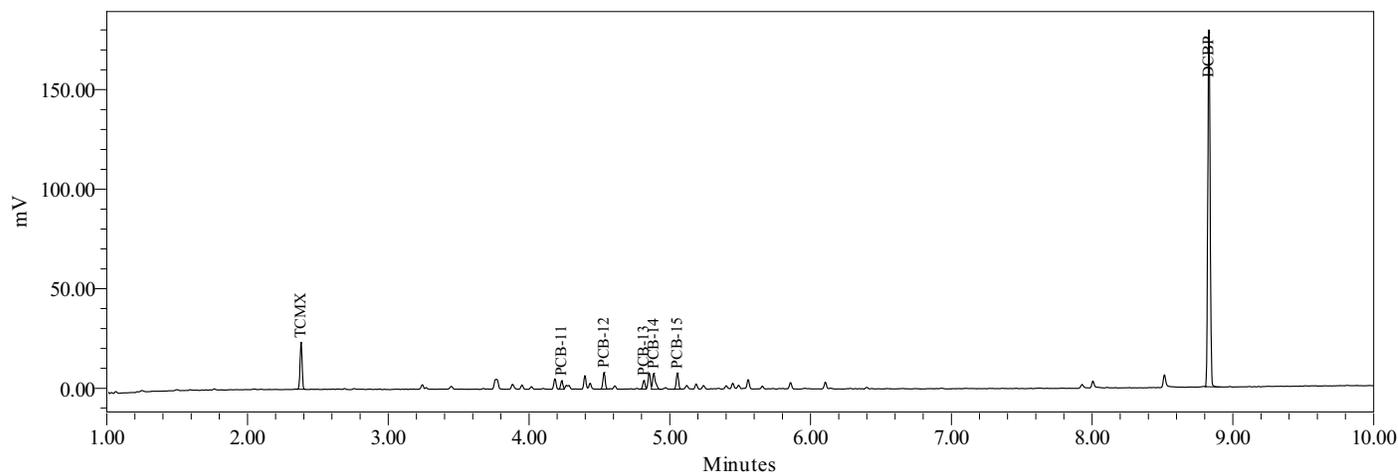
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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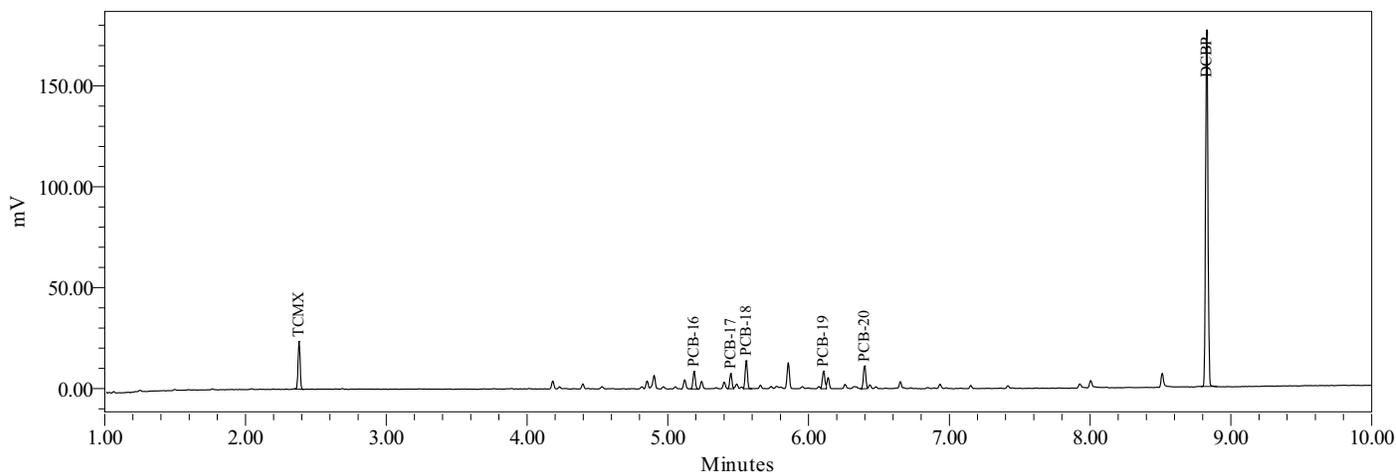
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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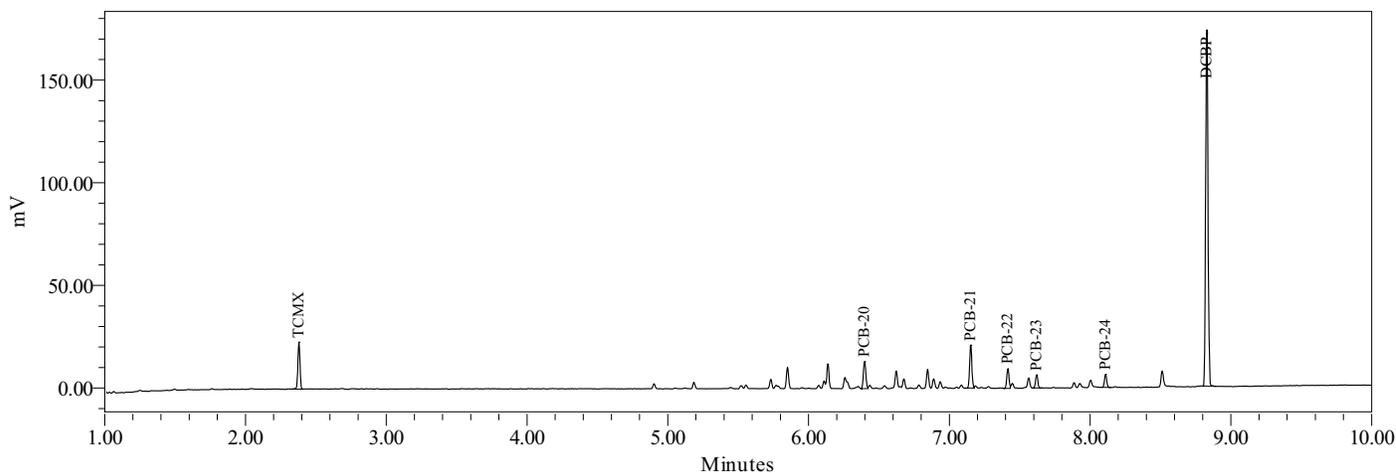
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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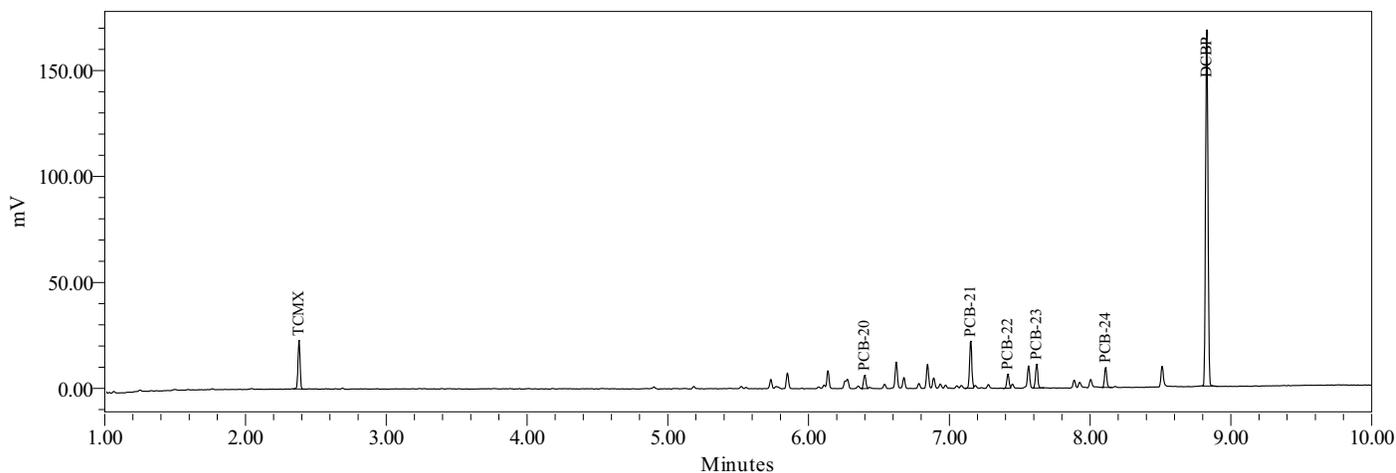
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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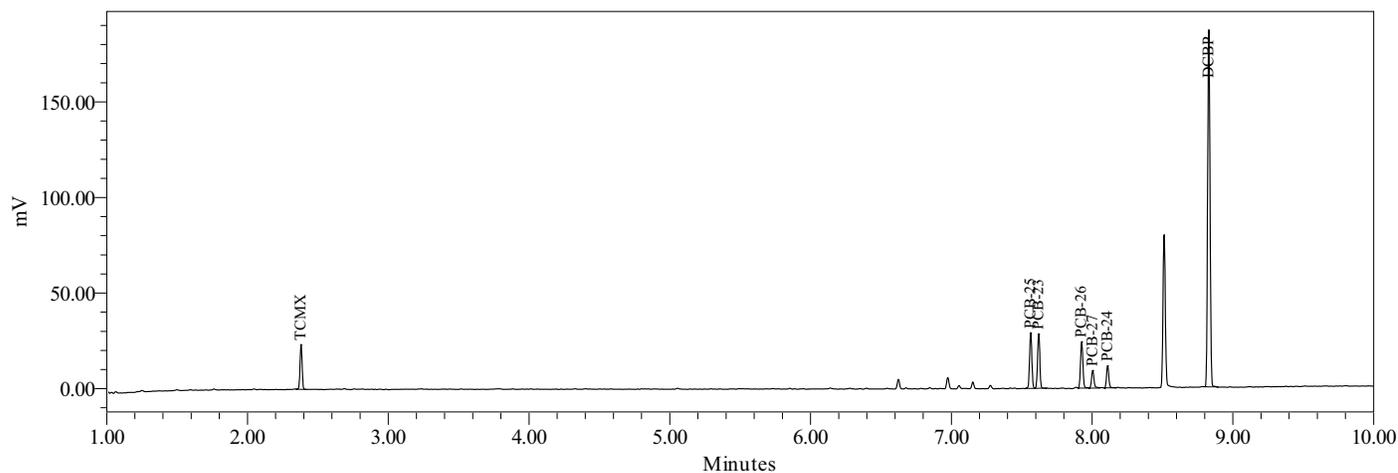
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |

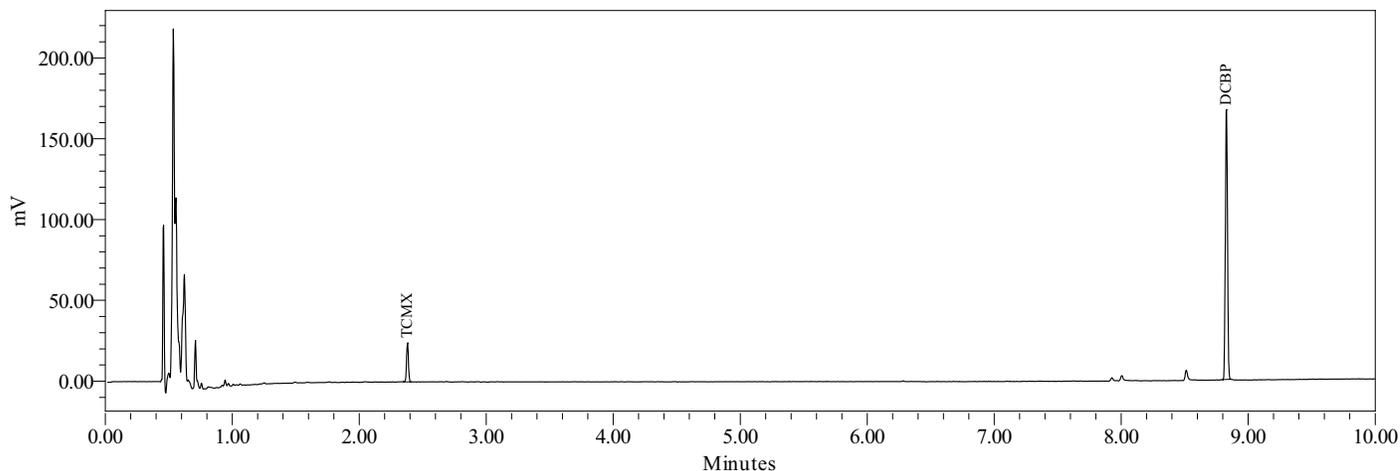


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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 TCMX    | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 DCBP    | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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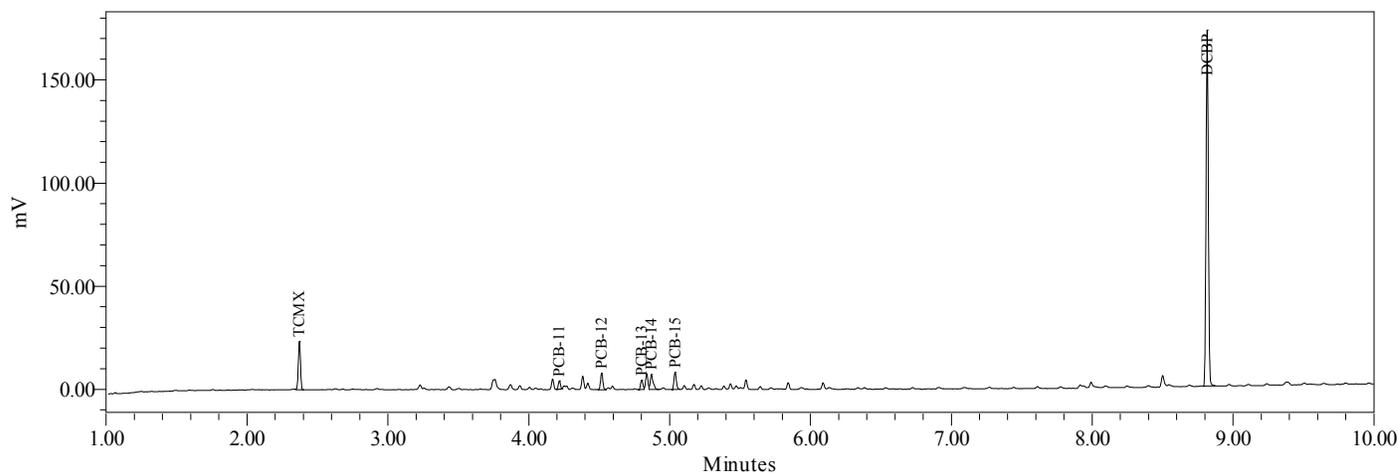
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480608A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/8/2015 11:34:22 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/8/2015 11:46:08 AM EDT |
| Sample Set Name:   | GC28F_060815B            | User Name:      | Mike Abrahamson (MikeA)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 6:04:35 PM US/Eastern    |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1637-14 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | vb               | 25193         | 5.167                | 103.3       |             |
| 2 PCB-11  | 4.217          | bb               | 4041          |                      |             |             |
| 3 PCB-12  | 4.518          | bb               | 8915          |                      |             |             |
| 4 PCB-13  | 4.802          | bV               | 5366          |                      |             |             |
| 5 PCB-14  | 4.871          | Vb               | 10771         |                      |             |             |
| 6 PCB-15  | 5.039          | bb               | 9440          |                      |             |             |
| 7 DCBP    | 8.817          | bb               | 203112        | 49.725               |             | 99.5        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38533               | 51.624               | 3.25                | X      |      |
| 2 A 1248-11/15 | 25052               | 52.110               | 4.22                |        |      |
| 3 A 1248-14/15 | 18322               | 51.146               | 2.29                |        |      |



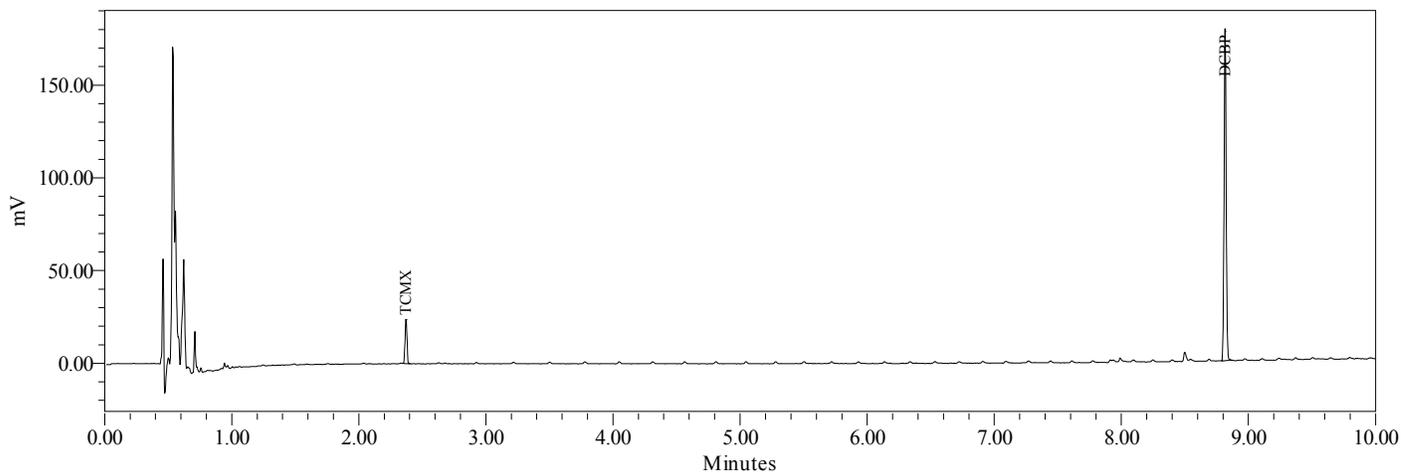
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150608B05                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 6/8/2015 11:48:28 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/8/2015 11:59:20 AM EDT |
| Sample Set Name:   | GC28F_060815B            | User Name:      | Mike Abrahamson (MikeA)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 6:05:28 PM US/Eastern    |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1637-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | bb               | 24645         | 5.052                | 101.04473 |           |
| 2 | DCBP      | 8.816          | bb               | 209453        | 51.384               |           | 102.76727 |



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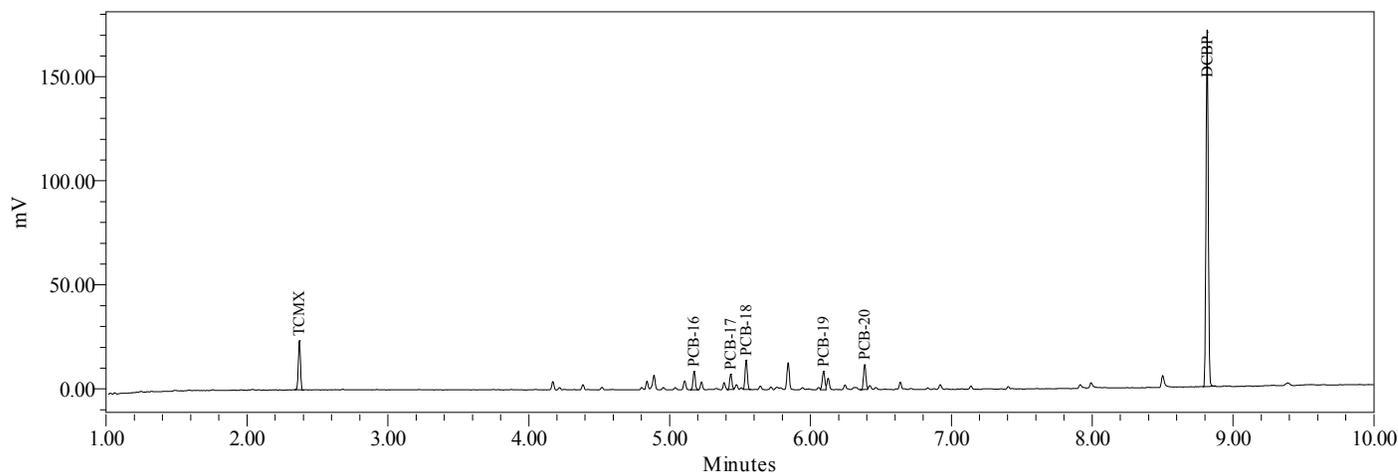
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS540608A               | Sample Amount:  | 1                       |
| Sample ID:         | A1254 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/8/2015 2:28:27 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/8/2015 3:26:00 PM EDT |
| Sample Set Name:   | GC28F_060815d           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:04:51 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1637-23 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | bb               | 24911         | 5.108                | 102.2       |             |
| 2 PCB-16  | 5.174          | bb               | 9856          |                      |             |             |
| 3 PCB-17  | 5.434          | bV               | 8425          |                      |             |             |
| 4 PCB-18  | 5.544          | Vb               | 15552         |                      |             |             |
| 5 PCB-19  | 6.093          | VV               | 10890         |                      |             |             |
| 6 PCB-20  | 6.385          | bV               | 14014         |                      |             |             |
| 7 DCBP    | 8.816          | bb               | 197854        | 48.350               |             | 96.7        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58737               | 53.079               | 6.16                | X      |      |
| 2 A 1254-17/18 | 34760               | 53.977               | 7.95                |        |      |
| 3 A 1254-19/20 | 33833               | 52.221               | 4.44                |        |      |
| 4 A 1254-20    | 44723               | 52.526               | 5.05                |        |      |
| 5 A 1260       | 14014               | 11.375               | -77.25              |        |      |
| 6 A 1260-23/24 | 14014               | 14.506               | -70.99              |        |      |
| 7 A 1262       | 14014               | 10.344               | -79.31              |        |      |



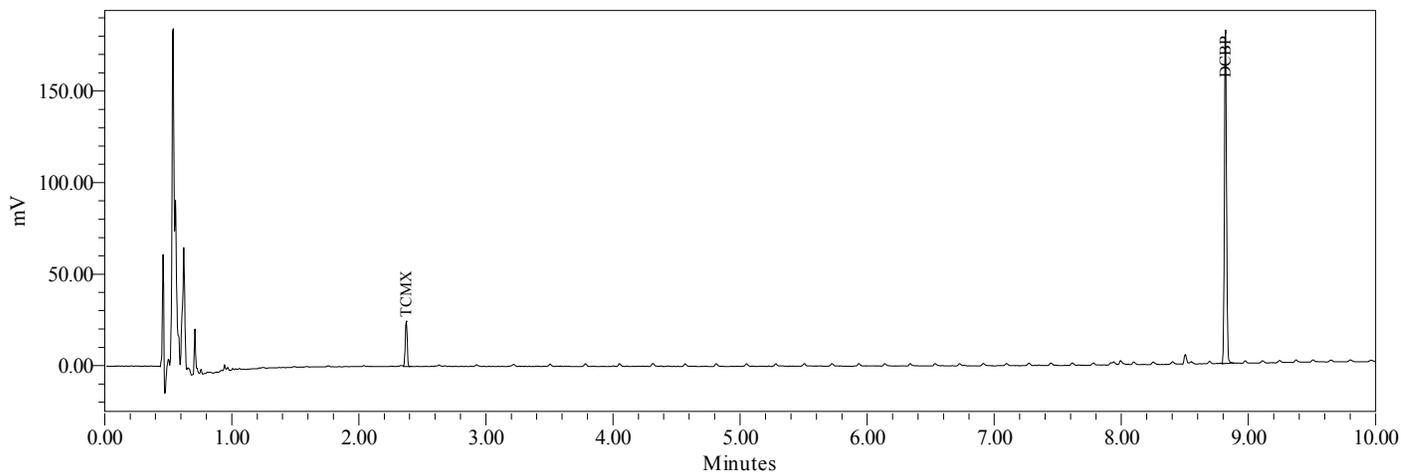
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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150608B06               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/8/2015 2:42:20 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/8/2015 3:26:13 PM EDT |
| Sample Set Name:   | GC28F_060815d           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:05:44 PM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1637-24 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.373          | Vb               | 25602         | 5.253                | 105.05192 |           |
| 2 | DCBP      | 8.819          | bb               | 214699        | 52.756               |           | 105.51194 |



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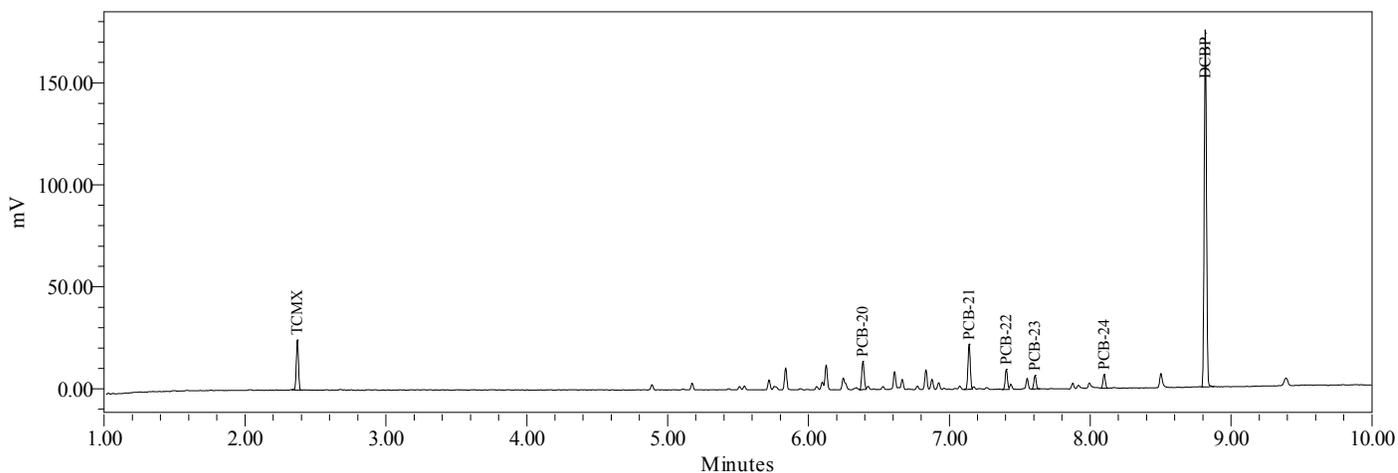
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS600608A               | Sample Amount:  | 1                       |
| Sample ID:         | A1260 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/8/2015 5:39:07 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/8/2015 5:49:22 PM EDT |
| Sample Set Name:   | GC28F_060815F           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:05:03 PM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1637-34 [m]       |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | bb               | 26102         | 5.357                | 107.1       |             |
| 2 PCB-20  | 6.386          | bV               | 16445         |                      |             |             |
| 3 PCB-21  | 7.140          | bV               | 24711         |                      |             |             |
| 4 PCB-22  | 7.404          | bV               | 11026         |                      |             |             |
| 5 PCB-23  | 7.609          | bb               | 7422          |                      |             |             |
| 6 PCB-24  | 8.099          | bb               | 7519          |                      |             |             |
| 7 DCBP    | 8.818          | bb               | 205137        | 50.255               |             | 100.5       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16445               | 15.055               | -69.89              |        |      |
| 2 A 1254-17/18 | 16445               | 25.719               | -48.56              |        |      |
| 3 A 1260       | 67123               | 54.921               | 9.84                | X      |      |
| 4 A 1260-20    | 50679               | 58.186               | 16.37               |        |      |
| 5 A 1260-23/24 | 52182               | 52.803               | 5.61                |        |      |
| 6 A 1262       | 67123               | 52.480               | 4.96                |        |      |
| 7 A 1268       | 14941               | 6.237                | -87.53              |        |      |

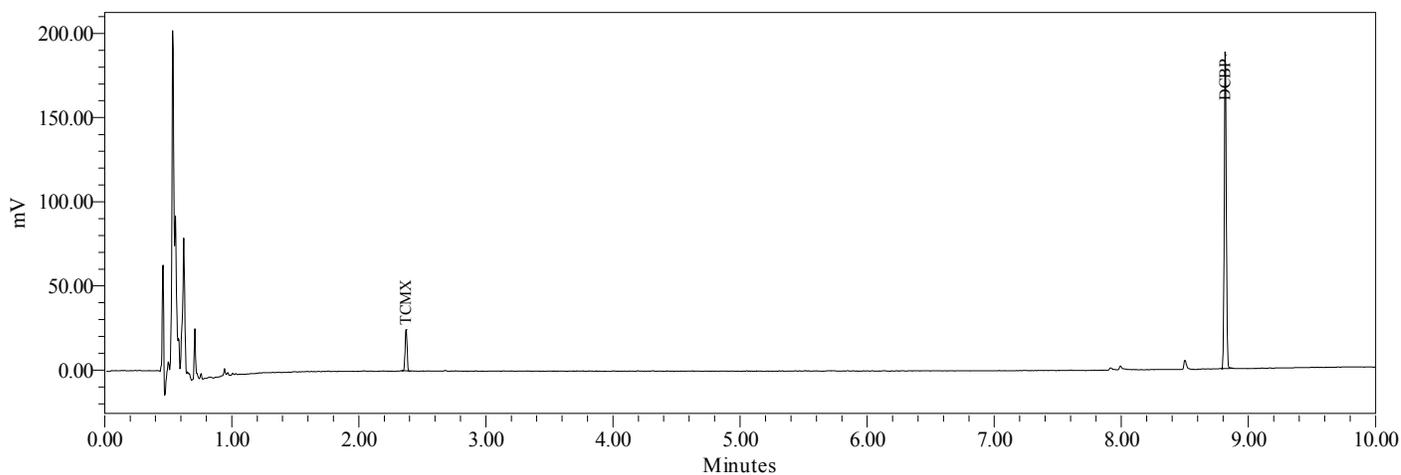


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|                    |                         |                 |                         |
|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | 150608B09               | Sample Amount:  | 1                       |
| Sample ID:         | HEXANE BLANK-SURR       | Dilution:       | 1                       |
| Date Acquired:     | 6/8/2015 5:53:06 PM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/8/2015 6:04:13 PM EDT |
| Sample Set Name:   | GC28F_060815F           | User Name:      | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 6:05:56 PM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_             | LIMS File ID:   | GC28F-1637-35 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.372          | bb               | 25778         | 5.290                | 105.79033 |           |
| 2 | DCBP      | 8.817          | bb               | 214368        | 52.669               |           | 105.33872 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060190</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-43RR1</u>         |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS12338BRR1</u> |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-27</u> |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/08/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

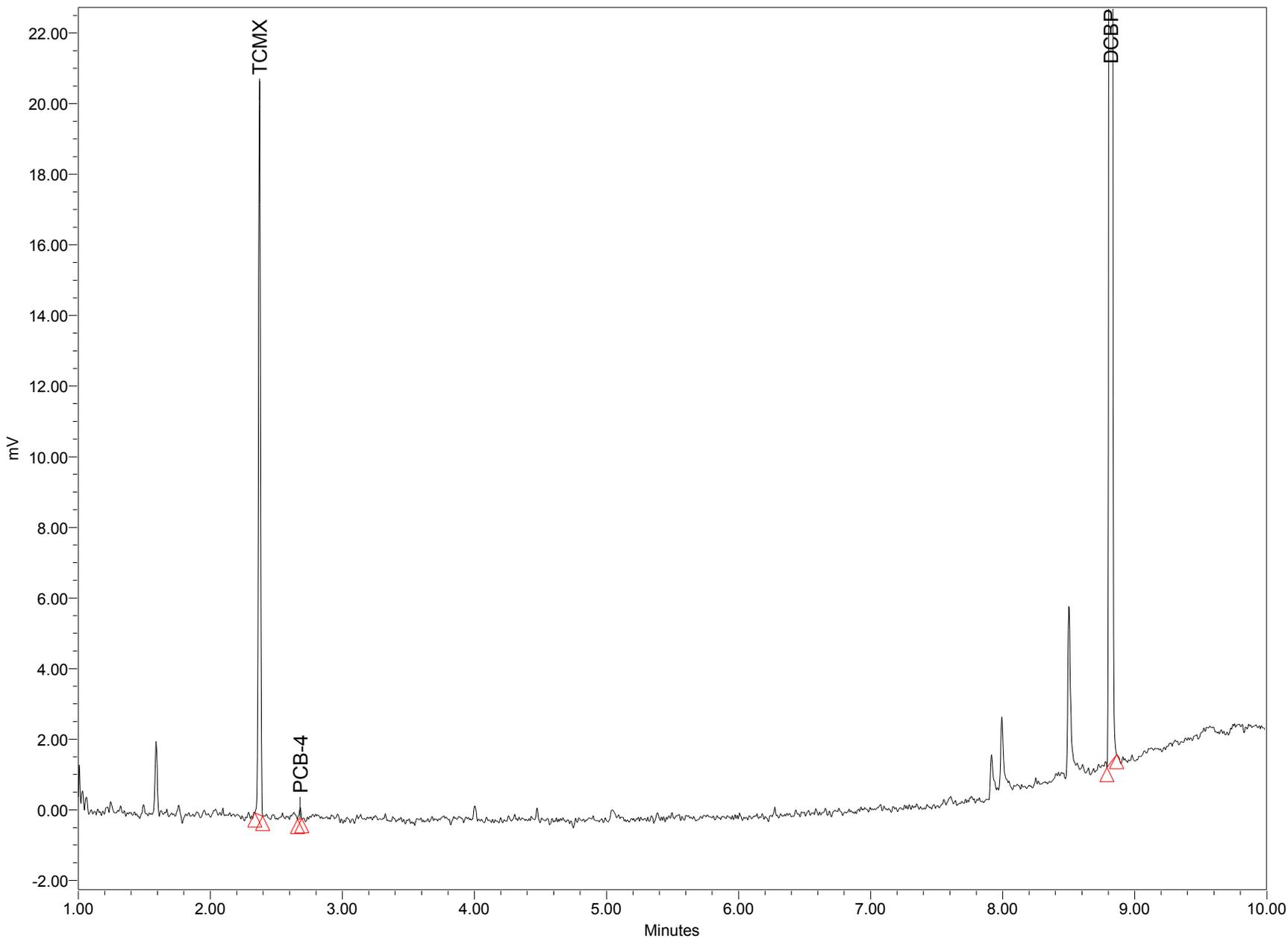
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS12338BRR1             | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 4:02:27 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 5:04:30 PM EDT |
| Sample Set Name:   | GC28F_060815e           | User Name:          | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 6:00:29 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-27 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.372          | bb               | 22022         | 4.503                | 90.1        |             |
| 2 | PCB-4     | 2.680          | bb               | 313           |                      |             |             |
| 3 | DCBP      | 8.818          | bb               | 212040        | 52.060               |             | 104         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 1 | A 1221     | 313.2526            | 1.309               | 0.00655     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1221-2   | 313.2526            | 1.927               | 0.00964     | 0.0250   | 0.00873  | NR     |      |
| 3 | A 1221-5   | 313.2526            | 2.903               | 0.01452     | 0.0250   | 0.00873  | NR     |      |



SampleName AS12338BRR1; Sample\_ID METHOD BLANK

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                          |
|-----------------------|---|------------------|--------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060190</u>          |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>LCS-43</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS12338L</u>          |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1637-17</u>     |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>                |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/08/2015</u>        |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/08/2015</u>        |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                 |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.235                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

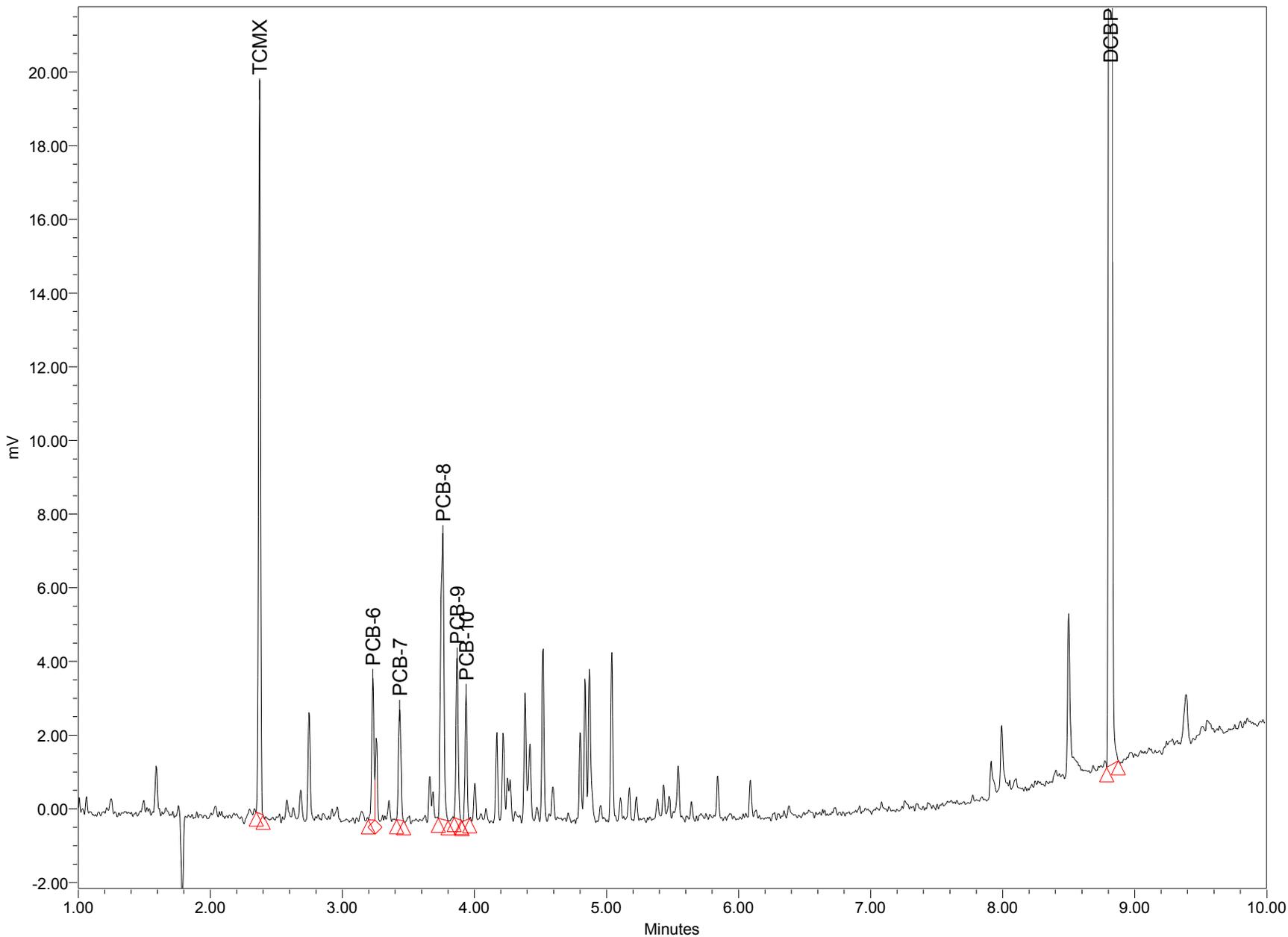
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS12338L                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 1:05:35 PM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 5:01:13 PM EDT |
| Sample Set Name:   | GC28F_060815d           | User Name:          | Mike Abrahamson (MikeA) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 5:59:30 PM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-17 [m]       |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.373          | bb               | 20523         | 4.189                | 83.8        |             |
| 2 | PCB-6     | 3.231          | bV               | 4461          |                      |             |             |
| 3 | PCB-7     | 3.434          | bb               | 4083          |                      |             |             |
| 4 | PCB-8     | 3.760          | bb               | 13600         |                      |             |             |
| 5 | PCB-9     | 3.868          | bb               | 5238          |                      |             |             |
| 6 | PCB-10    | 3.937          | bb               | 3585          |                      |             |             |
| 7 | DCBP      | 8.816          | bb               | 208685        | 51.183               |             | 102         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A 1016     | 30967.0053          | 36.655               | 0.18327     | 0.0250   | 0.00873  | NR     |      |
| 2 | A 1232     | 26506.3492          | 60.758               | 0.30379     | 0.0250   | 0.00873  | NR     |      |
| 3 | A 1232-8/9 | 7668.3927           | 37.167               | 0.18583     | 0.0250   | 0.00873  | NR     |      |
| 4 | A 1242     | 30967.0053          | 46.919               | 0.23460     | 0.0250   | 0.00873  | X      |      |



SampleName AS12338L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



# Analytical Sample Results

Job Number: 15060190

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-162.90-T150605082250  
**Lab Sample ID:** 15060190-01 (AS12338)

**Collection Date:** 06/05/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1637-18 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 13:19 | MCA     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30979             | EPA 3535A                           | 06/08/2015 08:44 | KEN     | 1070 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-18 |
| Aroclor 1221          | 11104-28-2 | <b>0.113</b>  | 0.0250 | 1.00            | PB    | GC28F-1637-18 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-18 |
| Aroclor 1242          | 53469-21-9 | <b>0.0228</b> | 0.0250 | 1.00            | AD,J  | GC28F-1637-18 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-18 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-18 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-18 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1358</b> |        | 1.00            |       | GC28F-1637-18 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 90.3       | 70.0-130   |                | GC28F-1637-18 |
| Decachlorobiphenyl      | 2051-24-3 | 86.4       | 70.0-130   |                | GC28F-1637-18 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060190

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-186.00-T150605082344  
**Lab Sample ID:** 15060190-02 (AS12339)

**Collection Date:** 06/05/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1637-19 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 13:33 | MCA     | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30979             | EPA 3535A                           | 06/08/2015 08:44 | KEN     | 980 mL        | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L)  | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|----------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND             | 0.0255 | 1.00            | U     | GC28F-1637-19 |
| Aroclor 1221          | 11104-28-2 | <b>0.0644</b>  | 0.0255 | 1.00            | PB    | GC28F-1637-19 |
| Aroclor 1232          | 11141-16-5 | ND             | 0.0255 | 1.00            | U     | GC28F-1637-19 |
| Aroclor 1242          | 53469-21-9 | <b>0.00946</b> | 0.0255 | 1.00            | AD,J  | GC28F-1637-19 |
| Aroclor 1248          | 12672-29-6 | ND             | 0.0255 | 1.00            | U     | GC28F-1637-19 |
| Aroclor 1254          | 11097-69-1 | ND             | 0.0255 | 1.00            | U     | GC28F-1637-19 |
| Aroclor 1260          | 11096-82-5 | ND             | 0.0255 | 1.00            | U     | GC28F-1637-19 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.07386</b> |        | 1.00            |       | GC28F-1637-19 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 93.6       | 70.0-130   |                | GC28F-1637-19 |
| Decachlorobiphenyl      | 2051-24-3 | 92.3       | 70.0-130   |                | GC28F-1637-19 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060190

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150605082422  
**Lab Sample ID:** 15060190-03 (AS12340)

**Collection Date:** 06/05/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

|             | Batch ID      | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column  |
|-------------|---------------|-------------------------------------|------------------|---------|---------------|------------|---|
| Analysis 1: | GC28F-1637-20 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 13:47 | MCA     | NA            | NA         | Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30979         | EPA 3535A                           | 06/08/2015 08:44 | KEN     | 1020 mL       | 5.00 mL    | NA  |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Aroclor 1221          | 11104-28-2 | 0.0265        | 0.0250 | 1.00            | PB    | GC28F-1637-20 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Aroclor 1242          | 53469-21-9 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-20 |
| Total PCB Amount > RL | 1336-36-3  | 0.0265        |        | 1.00            |       | GC28F-1637-20 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 91.4       | 70.0-130   |                | GC28F-1637-20 |
| Decachlorobiphenyl      | 2051-24-3 | 90.5       | 70.0-130   |                | GC28F-1637-20 |

<sup>1</sup>Qualifier column where \* denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2116 Date In Oven: 06/08/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060515B9P11 Date Out Oven: 06/09/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29224   | BLANK-72       | AS11520B      | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | WQO        | 1000             | 0.1175         | 0.1179       | 0.4               |                    |       |      |          |
| 29225   | LCS-72         | AS11520L      | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | WQP        | 250              | 0.1239         | 0.1470       | 92.4              | 100                | 92.4  |      |          |
| 29222   | 15060060-01    | AS11520       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | WQQ        | 98               | 0.1246         | 0.1324       | 79.6              |                    |       |      |          |
| 29223   | 15060060-02    | AS11521       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | WQR        | 1020             | 0.1143         | 0.1159       | 1.57              |                    |       |      |          |
| 29226   | 15060066-01    | AS11542       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | WQS        | 880              | 0.1129         | 0.1159       | 3.41              |                    |       |      |          |
| 29227   | 15060066-02    | AS11543       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX4        | 208              | 0.1164         | 0.1352       | 90.4              |                    |       |      |          |
| 29228   | 15060071-05    | AS11562       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX5        | 1040             | 0.1183         | 0.1204       | 2.02              |                    |       |      |          |
| 29229   | 15060072-04    | AS11571       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX6        | 1040             | 0.1189         | 0.1192       | 0.288             |                    |       |      |          |
| 29230   | 15060100-01    | AS11795       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX7        | 106              | 0.1330         | 0.1372       | 39.6              |                    |       |      |          |
| 29236   | 15060100-01DUP | AS11795D      | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX8        | 118              | 0.1174         | 0.1242       | 57.6              |                    |       | 37.0 |          |
| 29231   | 15060190-01    | AS12338       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KX9        | 1020             | 0.1175         | 0.1247       | 7.06              |                    |       |      |          |
| 29232   | 15060190-02    | AS12339       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KXA        | 980              | 0.1214         | 0.1232       | 1.84              |                    |       |      |          |
| 29233   | 15060190-03    | AS12340       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KXB        | 980              | 0.1164         | 0.1186       | 2.24              |                    |       |      |          |
| 29234   | 15060200-01    | AS12455       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KXC        | 880              | 0.1089         | 0.1118       | 3.3               |                    |       |      |          |
| 29237   | 15060200-01DUP | AS12455D      | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KXD        | 900              | 0.1210         | 0.1345       | 15                |                    |       | 128  |          |
| 29235   | 15060200-02    | AS12456       | L      | <input checked="" type="checkbox"/> | 13:47        | 08:05         | KXE        | 820              | 0.1176         | 0.1297       | 14.8              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/11/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060190

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-162.90-T150605082250 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060190-01 (AS12338)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2116 | SM 2540D | 06/08/2015 13:47 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL   | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|-------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 7.06          | 0.980 | 0.98            |       | 2116    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



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|   |  |
|---|--|
| <b>Client:</b> General Electric Company           | <b>Collection Date:</b> 06/05/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP                 | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> NRS-186.00-T150605082344 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060190-02 (AS12339)       | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2116 | SM 2540D | 06/08/2015 13:47 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 1.84          | 1.02 | 1.02            |       | 2116    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

**Job Number:** 15060190

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** NRS-187.70-T150605082422  
**Lab Sample ID:** 15060190-03 (AS12340)

**Collection Date:** 06/05/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2116 | SM 2540D | 06/08/2015 13:47 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 2.24          | 1.02 | 1.02            |       | 2116    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

***Pace Analytical e-Report***

**Report prepared for:**

General Electric Company  
381 Broadway, Bldg. 40  
Fort Edward, NY 12828 USA  
Contact: Robert Gibson  
EHS Leader-Hudson River

-----  
**Project ID:** HUDSON RIVER RAMP

**Sampling Date(s):** June 06, 2015, June 07, 2015

**Lab Report ID:** 15060189

**Client Service Contact:** Jill Grygas (518) 346-4592 ext. 3850

-----  
**Analysis Included:**

PCB Analysis  
Total Suspended Solids

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Roy Smith  
Technical Director



Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337),  
Massachusetts (M-NY906), Virginia (1884)

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# CASE NARRATIVE

June 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15060189) consists of 4 water samples received on 6/7/2015. The samples are from Project Name: HUDSON RIVER RAMP.

This sample delivery group consists of the following samples:

| <u>Lab Sample ID</u> | <u>Client ID</u>       | <u>Collection Date</u> |
|----------------------|------------------------|------------------------|
| AS12334              | FRS-LOC5-T150607125205 | 6/7/2015 06:00         |
| AS12335              | FRS-LOC5-T150607125229 | 6/6/2015 06:00         |
| AS12336              | FRS-WAFA-T150607125316 | 6/7/2015 06:00         |
| AS12337              | FRS-WAFA-T150607125337 | 6/6/2015 06:00         |

Sample Delivery and Receipt Conditions

- (1.) Lab provided sample pickup service on 6/7/2015.
- (2.) All samples were received at the laboratory intact and within holding times.
- (3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by NE273\_04 (Quick TAT Aroclor Method). The following technical and administrative items were noted for the analysis:

- (1.) The concentration results for Aroclor 1242 were flagged (AD) to denote that an altered Aroclor pattern was observed. Please see Form 1 for details.
- (2.) The concentration result for Aroclor 1221 was flagged (PB) to denote that Aroclor 1221 is being used to quantify an altered Aroclor pattern. Actual Aroclor 1221 was not presumed to be present in the sample(s). Please see associated Form 1 for details.
- (3.) Sample (LAB ID: AS12337) was re-analyzed due to chromatographic interference from a non-target contaminant pattern originated from the sample injection. Results for the re-analysis are provided with RR1 sample ID suffix.

Total Suspended Solids by SM 2540D

Analysis for Total Suspended Solids (TSS) was performed by SM 2540D (PACE SOP NE117\_06). The following technical and administrative items were noted for the analysis:

- (1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,



William A. Kotas  
Assistant General Manager

# QUALIFIERS

## **Definitions**

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

\* - Value not within control limits.

# SAMPLE CHAIN OF CUSTODY



305 West Grand Avenue Montvale, NJ 07645 Ph: 201-930-9890

Client: General Electric Company

# ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

Project: Hudson River Remedial Action Monitoring Program - Resuspension Monitoring

COC ID: COC150607125420PACE

Sample Custodian: SS

Lab: PACE

| COC Sample Number | Field Sample ID   | QA/QC | Matrix ** | Date Collected | Time Collected | Media * | # Containers | TEST REQUESTED         | METHOD   | MS | MSD | LD | Turn Around Time (hrs) | Preservative |
|-------------------|---|-------|-----------|----------------|----------------|---------|--------------|------------------------|----------|----|-----|----|------------------------|--------------|
|                   | <15060189P1>  |       |           |                |                |         |              |                        |          |    |     |    |                        |              |
|                   |  |       |           |                |                |         |              |                        |          |    |     |    |                        |              |
|                   | 150601891   |       |           |                |                |         |              |                        |          |    |     |    |                        |              |
| 001               | FRS-LOC5-T150607125205  | ENV   | W         | 06/07/2015     | 06:00          | W       | 3            | AS12334                |          |    |     |    |                        |              |
|                   |   |       |           |                |                |         |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 24                     | 4degC        |
|                   |   |       |           |                |                |         |              | Aroclor Water          | NE273_04 | N  | N   | N  | 24                     | 4degC        |
| 002               | FRS-LOC5-T150607125229  | ENV   | W         | 06/06/2015     | 06:00          | W       | 3            | AS12335                |          |    |     |    |                        |              |
|                   |   |       |           |                |                |         |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 24                     | 4degC        |
|                   |   |       |           |                |                |         |              | Aroclor Water          | NE273_04 | N  | N   | N  | 24                     | 4degC        |
| 003               | FRS-WAFA-T150607125316  | ENV   | W         | 06/07/2015     | 06:00          | W       | 3            | AS12336                |          |    |     |    |                        |              |
|                   |   |       |           |                |                |         |              | Total Suspended Solids | SM 2540D | N  | N   | N  | 24                     | 4degC        |
|                   |   |       |           |                |                |         |              | Aroclor Water          | NE273_04 | N  | N   | N  | 24                     | 4degC        |
| 004               | FRS-WAFA-T150607125337  | ENV   | W         | 06/06/2015     | 06:00          | W       | 4            | AS12337                |          |    |     |    |                        |              |
|                   |   |       |           |                |                |         |              | Total Suspended Solids | SM 2540D | N  | N   | Y  | 24                     | 4degC        |
|                   |   |       |           |                |                |         |              | Aroclor Water          | NE273_04 | N  | N   | N  | 24                     | 4degC        |

|  |   |              |   |                  |  |              |  |
|--|---|--------------|---|------------------|--|--------------|--|
| Comments: Temp: 3.4°C (IR) (OC Seal) (Y) |   |              |   |                  |  |              |  |
| Relinquished by:                         |   | Received by: |   | Relinquished by: |  | Received by: |  |
| Signature                                |  | Signature    |  | Signature        |  | Signature    |  |
| Print Name                               | Shawn Surani  | Print Name   | Colin Nelligan  | Print Name       | Patricia Nguyen  | Print Name   |  |
| Company                                  | AQ  | Company      | Pace  | Company          | PACE   | Company      |  |
| Date/Time                                | 6/7/15 13:10  | Date/Time    | 6/7/15 13:10  | Date/Time        | 6/7/15 14:00   | Date/Time    |  |

Date Printed: 6/7/2015

\* S = SEDIMENT, W = WATER, PW = PORE WATER

\*\* W = Total/Whole, D = Dissolved, R = Residue, S = Sediment

Page 1 of 1



Sample Condition Upon Receipt

CLIENT NAME: GE

PROJECT: HR Ramp

COURIER: FedEx  UPS  Client  Pace  Other

TRACKING # WA CUSTODY SEAL PRESENT: Yes  No

INTACT: Yes  No  N/A

PACKING MATERIAL: Bubble Wrap  Bubble Bags  None  Other

ICE USED: Wet  Blue  None

THERMOMETER USED: #164  IR Gun 03  #122087967

COOLER TEMPERATURE (°C): 8.1 (Temp Blank) 3.4 (IR)

BIOLOGICAL TISSUE IS FROZEN: Yes  No  N/A

Temp should be above freezing to 6°C

COMMENTS:

|  |   |  |   |             |
|--|---|--|---|-------------|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 1.          |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 2.          |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 3.          |
| Sampler Name / Signature on COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 4.          |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 5.          |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |   | 6.          |
| Rush Turn Around Time Requested:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 7. 24 hours |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 8.          |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 9.          |
| - Pace Containers Used:  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   |             |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 10.         |
| Filtered volume received for Dissolved tests:                                  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 11.         |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |   | 12.         |
| - Includes date/time/ID/Analysis   |   |  |   |             |
| All containers needing preservation have been checked:                         | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 13.         |
| All containers needing preservation are in compliance with EPA recommendation: | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |             |
| - Exceptions that are not checked: VOA   |   |  |   |             |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 14.         |
| Trip Blank Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A | 15.         |
| Trip Blank Custody Seals Present:  | <input type="checkbox"/> Yes            | <input type="checkbox"/> No            | <input checked="" type="checkbox"/> N/A |             |
| Pace Trip Blank Lot #:   |   |  |   |             |
| Initial when completed:  | <u>WA</u>                               | Lot # of added preservative:           | <u>WA</u>                               |             |

Sample Receipt form filled in: AW 6/17/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH):

Log In (Includes notifying PM of any discrepancies and documenting in LIMS):

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):

AW 6/17/15  
AW 6/17/15  
AW 6/17/15

# SAMPLE RECEIPT



# SAMPLE RECEIPT REPORT

## 15060189

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**CLIENT:** GENERAL ELECTRIC COMPANY  
**PROJECT:** HUDSON RIVER RAMP  
**LRF:** 15060189  
**REPORT:** DATA PACKAGE  
**EDD:** YES  
**LRF TAT:** \*24 HOUR\*

**RECEIVED DATE:** 06/07/2015 14:00  
**SHIPPED VIA:** PICK UP <sup>1</sup>**SAMPLES PRESERVED PER METHOD GUIDANCE:** YES  
**SHIPPING ID:** <sup>3</sup>**SAMPLES REC'D IN HOLDTIME:** YES  
**NUMBER OF COOLERS:** 1  
**CUSTODY SEAL INTACT:** YES  
**COOLER STATUS:** CHILLED  
**TEMPERATURE(S):** <sup>5</sup>3.4 (IR) °C

**SAMPLE SEALS INTACT:** NA  
**DISPOSAL:** RETURN TO CLIENT  
**COC DISCREPANCY:** NO

**COMMENTS:**

| CLIENT ID (LAB ID)               | TAT-DUE Date <sup>4</sup> | DATE-TIME SAMPLED | MATRIX | METHOD             | TEST DESCRIPTION       | QC REQUEST |
|----------------------------------|---------------------------|-------------------|--------|--------------------|------------------------|------------|
| FRS-LOC5-T150607125205 (AS12334) | *24 HOUR* 06-08-15        | 06/07/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-08-15        | 06/07/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-LOC5-T150607125229 (AS12335) | *24 HOUR* 06-08-15        | 06/06/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-08-15        | 06/06/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150607125316 (AS12336) | *24 HOUR* 06-08-15        | 06/07/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids |            |
|                                  | *24 HOUR* 06-08-15        | 06/07/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |
| FRS-WAFA-T150607125337 (AS12337) | *24 HOUR* 06-08-15        | 06/06/2015 06:00  | Water  | SM 2540 D-97,-11   | Total Suspended Solids | DUP        |
|                                  | *24 HOUR* 06-08-15        | 06/06/2015 06:00  | Water  | SOP NE273 Rev. 4.0 | PCB Analysis           |            |

<sup>1</sup>The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.  
<sup>2</sup>The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.  
<sup>3</sup>Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.  
<sup>4</sup>Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.  
 The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.  
<sup>5</sup>All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice. Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.  
<sup>6</sup>Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

### Reporting Parameters and Lists

SM 2540 D-97,-11 - Total Suspended Solids - (mg/L)

Total Suspended Solids

SOP NE273 Rev. 4.0 - PCB Analysis - (ug/L)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

# INTERNAL SAMPLE TRACKING RECORD

PCB EXTRACTION LOG



Prep Date: 06/07/15

Batch ID: 30976

Method: EPA 3535A

Initial for required Clean Up Steps

| Prep ID | LAB Sample ID | Alt Sample ID | Matrix   | pH    | Analysis Required | Extract Type / Unit | Percent Total Solids | Sample Amount (g or mL) | Extract Time On - 1 | Extract Time Off - 1 | Extract Time On - 2 | Extract Time Off - 2 | Initial for required Clean Up Steps |                          |                             |                       | Final Ext. Vol (mL) | Date Conc (MM/DD) | Comments |  |
|---------|---------------|---------------|----------|-------|-------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|---------------------|----------------------|-------------------------------------|--------------------------|-----------------------------|-----------------------|---------------------|-------------------|----------|--|
|         |               |               |          |       |                   |                     |                      |                         |                     |                      |                     |                      | Date Acid Cleaned (MM/DD)           | Date TBA Cleaned (MM/DD) | Date Florisil Shake (MM/DD) | Date Cu Shake (MM/DD) |                     |                   |          |  |
| 1       | 307990        | PBLK-40       | AS12334B | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 2       | 307989        | LCS-40        | AS12334L | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 3       | 307985        | 15060189-01   | AS12334  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 4       | 307986        | 15060189-02   | AS12335  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 5       | 307987        | 15060189-03   | AS12336  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1040                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |
| 6       | 307988        | 15060189-04   | AS12337  | Water | 5                 | E PCB W             | SPE-1L               | N/A                     | 1000                | NA                   | NA                  | NA                   | NA                                  | 06/08                    | NA                          | 06/08                 | 06/08               | 5                 | 06/08    |  |

Solvent, Surrogate, Spike, and Acid Information

| Item                                | Lot Number          | Amount (uL) | Conc (ug/mL) | B                                   | L                                   | LD                       | S                                   | D                        | M                        | K                        |
|-------------------------------------|---------------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Methanol (Fisher)                   | 142425              | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 % Florisil WATER LAB(CURRENT)    | 0214158082A         | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 0.05ppm TCMX/0.5ppm DCBP in ACETONE | 031615B038P163A1-10 | 500         | 0.05/0.5     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sulfuric Acid 50% v/v(18 N)H2O LAB  | 5030267             | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dichloromethane                     | DM309               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A1242 @ 0.5 PPM SPIKE IN ACETONE    | 040215B038P177B1-2  | 500         | 0.5ppm       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Speedisk                            | 0000081766          | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Copper Granules                     | 410121-AZ           | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Acetone (Dewar) CURRENT             | DM609               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hexane (Dewar)                      | DM576               | NA          |              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Analyst Review: Elizabeth Ramkirpaul  
Elizabeth Ramkirpaul

Peer Review: Kaitlyn Nedo  
Kaitlyn Nedo

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

# PCB SCREEN SHEET

**LRF: 15060189**

**Batch ID: 30976**

| Lab Sample ID | File ID       | Matrix | Prep Date | Wet Weight (g or mL) | Set Volume (mL) | Screen Dilution | Screen Result | Bench Dilution | Dilution Sequence | Final Multiplier | Dilution Analyst | Dilution Solvent |
|---------------|---------------|--------|-----------|----------------------|-----------------|-----------------|---------------|----------------|-------------------|------------------|------------------|------------------|
| AS12334B      | GC28F-1637-5  | Water  | 06/07/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12334L      | GC28F-1637-6  | Water  | 06/07/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12334       | GC28F-1637-7  | Water  | 06/07/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12335       | GC28F-1637-8  | Water  | 06/07/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12336       | GC28F-1637-9  | Water  | 06/07/15  | 1040                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |
| AS12337RR1    | GC28F-1637-13 | Water  | 06/07/15  | 1000                 | 5               | NA              | NA            | 1              | NA                | 5x               | Rachael Fife     | NA               |

5

COMMENTS: \_\_\_\_\_

# SURROGATE % RECOVERY SUMMARY

**2E-1**  
**PCB SURROGATE RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

SDG: 15060189

ELAP ID No: 11078

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

GC Column (2): NA

| LRF ID         | LAB SAMPLE ID | LAB FILE ID   | SURR 1 (Col 1) % REC # | SURR 2 (Col 1) % REC # | OTHER (1) | OTHER (2) | TOTAL OUT |
|----------------|---------------|---------------|------------------------|------------------------|-----------|-----------|-----------|
| PBLK-40        | AS12334B      | GC28F-1637-5  | 81.4                   | 99.4                   |           |           | 0         |
| LCS-40         | AS12334L      | GC28F-1637-6  | 84.3                   | 97.9                   |           |           | 0         |
| 15060189-01    | AS12334       | GC28F-1637-7  | 88.4                   | 86.3                   |           |           | 0         |
| 15060189-02    | AS12335       | GC28F-1637-8  | 91.1                   | 89.0                   |           |           | 0         |
| 15060189-03    | AS12336       | GC28F-1637-9  | 91.7                   | 93.3                   |           |           | 0         |
| 15060189-04RR1 | AS12337RR1    | GC28F-1637-13 | 90.1                   | 95.8                   |           |           | 0         |

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

Advisory QC Limits.

SURR1 = TETRACHLORO-META-XYLENE (70.0-130)

SURR2 = DECACHLOROBIPHENYL (70.0-130)

# LABORATORY CONTROL SPIKE SUMMARY

**3F-2**  
**LABORATORY CONTROL SPIKE (LCS) RECOVERY**

Laboratory Name: Pace Analytical Services, Inc.

|  |   |
|--|---|
| ELAP ID No: <u>11078</u>                 | SDG No: <u>15060189</u>                           |
| LCS Lab ID: <u>LCS-40</u>                | Blank Sample ID: <u>PBLK-40</u>                   |
| LCS File ID: <u>GC28F-1637-6</u>         | Method Blank File ID: <u>GC28F-1637-5</u>         |
| LCS Inj Date: <u>06/08/2015 08:57:04</u> | Method Blank Inj Date: <u>06/08/2015 08:43:22</u> |
| LCS ID: <u>AS12334L</u>                  | Method Blank ID: <u>AS12334B</u>                  |
| LCS Matrix: <u>Water</u>                 | Method Blank Matrix: <u>Water</u>                 |

| COMPOUND     | SPIKE ADDED<br>(ug/L) | LCS CONCENTRATION<br>(ug/L) | LCS PERCENT RECOVERY # | QC LIMITS <sup>1</sup><br>PERCENT RECOVERY |
|--------------|-----------------------|-----------------------------|------------------------|--|
| Aroclor 1242 | 0.250                 | 0.235                       | 94.1                   | 70.0-130                                   |

# Column to be used to flag recovery values

\* Values outside of QC limits

<sup>1</sup>QC Limits based upon laboratory defaults.

Spike Recovery: 0 out of 1 outside limits.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# METHOD BLANK SUMMARY

**4C-1**  
**PCB METHOD BLANK SUMMARY**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                     | SDG No: <u>15060189</u>           |
| ELAP ID No: <u>11078</u>   | Blank Sample ID: <u>PBLK-40</u>   |
| Matrix: <u>Water</u>   | Method Blank ID: <u>AS12334B</u>  |
| Instrument ID: <u>GC28F</u>  | Lab File ID: <u>GC28F-1637-5</u>  |
| Extraction Type: <u>1L - Solid Phase Extraction</u>                        | Date Extracted: <u>06/07/2015</u> |
| GC Column (1): <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Date Analyzed: <u>06/08/2015</u>  |
|  | Time Analyzed: <u>08:43:22</u>    |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND QC:

| CLIENT<br>SAMPLE ID       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE / TIME<br>ANALYZED |
|---------------------------|------------------|----------------|-------------------------|
| LCS-40(LAB CONTROL SPIKE) | AS12334L         | GC28F-1637-6   | 06/08/2015 08:57:04     |
| FRS-LOC5-T150607125205    | AS12334          | GC28F-1637-7   | 06/08/2015 09:11:02     |
| FRS-LOC5-T150607125229    | AS12335          | GC28F-1637-8   | 06/08/2015 09:24:38     |
| FRS-WAFA-T150607125316    | AS12336          | GC28F-1637-9   | 06/08/2015 09:38:38     |
| FRS-WAFA-T150607125337    | AS12337RR1       | GC28F-1637-13  | 06/08/2015 11:20:38     |

# SAMPLE ANALYSIS DATA

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060189</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060189-01</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-LOC5-T150607125205</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS12334</u>                |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1637-7</u>           |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/07/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/07/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/08/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q    |
|------------|---------------|-----------------------|------|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U    |
| 11104-28-2 | Aroclor 1221  | 0.122                 | PB   |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U    |
| 53469-21-9 | Aroclor 1242  | 0.0204                | AD,J |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U    |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U    |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U    |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                          |
|--------------------|-------------------------|---------------------|--------------------------|
| Sample Name:       | AS12334                 | Sample Amount (L) : | 1.0000                   |
| Sample ID:         | FRS-LOC5-T150607125205  | Dilution:           | 5                        |
| Date Acquired:     | 6/8/2015 9:11:02 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 10:17:57 AM EDT |
| Sample Set Name:   | GC28F_060815A           | User Name:          | Rachael Fiè (RachaelF)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:29:34 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-7 [m]         |

**Peak Results**

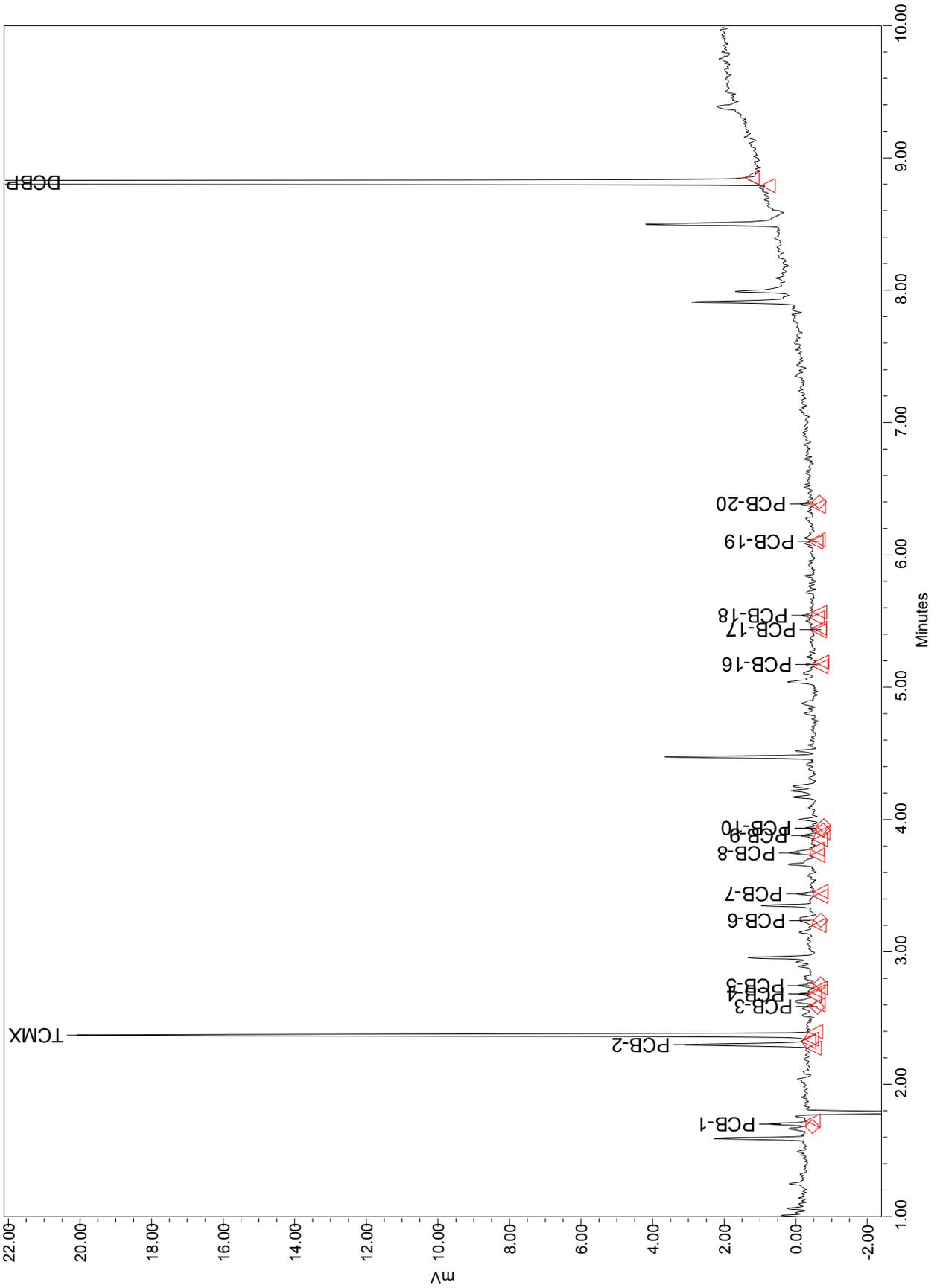
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | Vb               | 1142          |                      |             |             |
| 2  | PCB-2     | 2.298          | bb               | 4191          |                      |             |             |
| 3  | TCMX      | 2.372          | bb               | 21614         | 4.418                | 88.4        |             |
| 4  | PCB-3     | 2.589          | vb               | 81            |                      |             |             |
| 5  | PCB-4     | 2.682          | bb               | 220           |                      |             |             |
| 6  | PCB-5     | 2.746          | bV               | 478           |                      |             |             |
| 7  | PCB-6     | 3.235          | bV               | 508           |                      |             |             |
| 8  | PCB-7     | 3.439          | bb               | 527           |                      |             |             |
| 9  | PCB-8     | 3.748          | bb               | 895           |                      |             |             |
| 10 | PCB-9     | 3.878          | bb               | 508           |                      |             |             |
| 11 | PCB-10    | 3.936          | vV               | 365           |                      |             |             |
| 12 | PCB-16    | 5.172          | bb               | 260           |                      |             |             |
| 13 | PCB-17    | 5.436          | bb               | 35            |                      |             |             |
| 14 | PCB-18    | 5.542          | bb               | 298           |                      |             |             |
| 15 | PCB-19    | 6.104          | bb               | 16            |                      |             |             |
| 16 | PCB-20    | 6.386          | bv               | 410           |                      |             |             |
| 17 | DCBP      | 8.815          | bb               | 177963        | 43.146               |             | 86.3        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 2803.7802           | 3.155                | 0.01577     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 6111.4751           | 24.349               | 0.12175     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 1920.5981           | 8.645                | 0.04322     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 5633.4173           | 45.066               | 0.22533     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 2773.5995           | 6.349                | 0.03174     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 1370.1976           | 6.251                | 0.03125     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 2803.7802           | 4.086                | 0.02043     | 0.0250   | 0.00873  | X      | AD,J |
| 8 | A1254       | 1018.2530           | 1.186                | 0.00593     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1254-17/18 | 686.0861            | 1.405                | 0.00703     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1254-19/20 | 592.5789            | 1.086               | 0.00543     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254-20    | 608.4489            | 1.035               | 0.00518     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1260       | 409.8040            | 0.221               | 0.00111     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1260-23/24 | 409.8040            | 0.856               | 0.00428     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1262       | 409.8040            |                     |             |          |          | NR     |      |



SampleName AS12334; Sample\_ID FRS-LOC5-T150607125205



|                    |                        |                      |                     |
|--------------------|------------------------|----------------------|---------------------|
| Lab ID:            | AS12334                | Current Date Time:   | 6/9/2015 15:50:21   |
| Sample ID:         | FRS-LOC5-T150607125205 | LIMS File ID:        | GC28F-1637-7        |
| Matrix:            | Water                  | Calibration ID:      | 6976                |
| Date Analyzed:     | 6/8/2015 9:11:02 AM    | Calibration Date(s): | 3/12/2015,3/13/2015 |
| Processing Method: | GC28F_LLCC_031215      |                      |                     |

**Sample Calculation**

First Order (1/X) Weighted Linear Regression with intercept Initial Calibration

$$sc = (Y - A) / B$$

Y = Response uV-sec (sum of 5 quant peaks)  
 A = Constant (intercept) uV-sec  
 B = First Order Coefficient (slope)  
 sc = Solution Concentration (ng/mL)

**Solution Concentration (sc)**

Aroclor 1221       $sc = \frac{6111.475132 - -16.185578}{251.658479} = 24.3491 \text{ ng/mL}$

$$fc = \frac{(sc)(vt)(df)}{(wv)}$$

vt = Extract Volume (mL)  
 df = Analytical Dilution Factor  
 wv = dry weight or volume of sample used  
 sc = Solution Concentration (ng/mL)  
 fc = Final Concentration

**Final Concentration (fc)**

Aroclor 1221       $fc = \frac{24.3491 \text{ ng/mL} * 5.0 \text{ mL} * 1}{1000 \text{ mL}} = 0.122 \text{ ug/L}$

|   | Analyte      | Correlation Coefficient | Equation                    | Value A    | Value B    |
|---|--------------|-------------------------|-----------------------------|------------|------------|
| 1 | Aroclor 1221 | 0.999724                | Y = 2.52e+002 X - 1.62e+001 | -16.185578 | 251.658479 |

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060189</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060189-02</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-LOC5-T150607125229</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS12335</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-8</u>         |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/07/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/07/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.192                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0258                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                         |                     |                          |
|--------------------|-------------------------|---------------------|--------------------------|
| Sample Name:       | AS12335                 | Sample Amount (L) : | 1.0400                   |
| Sample ID:         | FRS-LOC5-T150607125229  | Dilution:           | 5                        |
| Date Acquired:     | 6/8/2015 9:24:38 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 10:11:22 AM EDT |
| Sample Set Name:   | GC28F_060815A           | User Name:          | Rachael Fi  (RachaelF)   |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:29:37 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-8 [m]         |

**Peak Results**

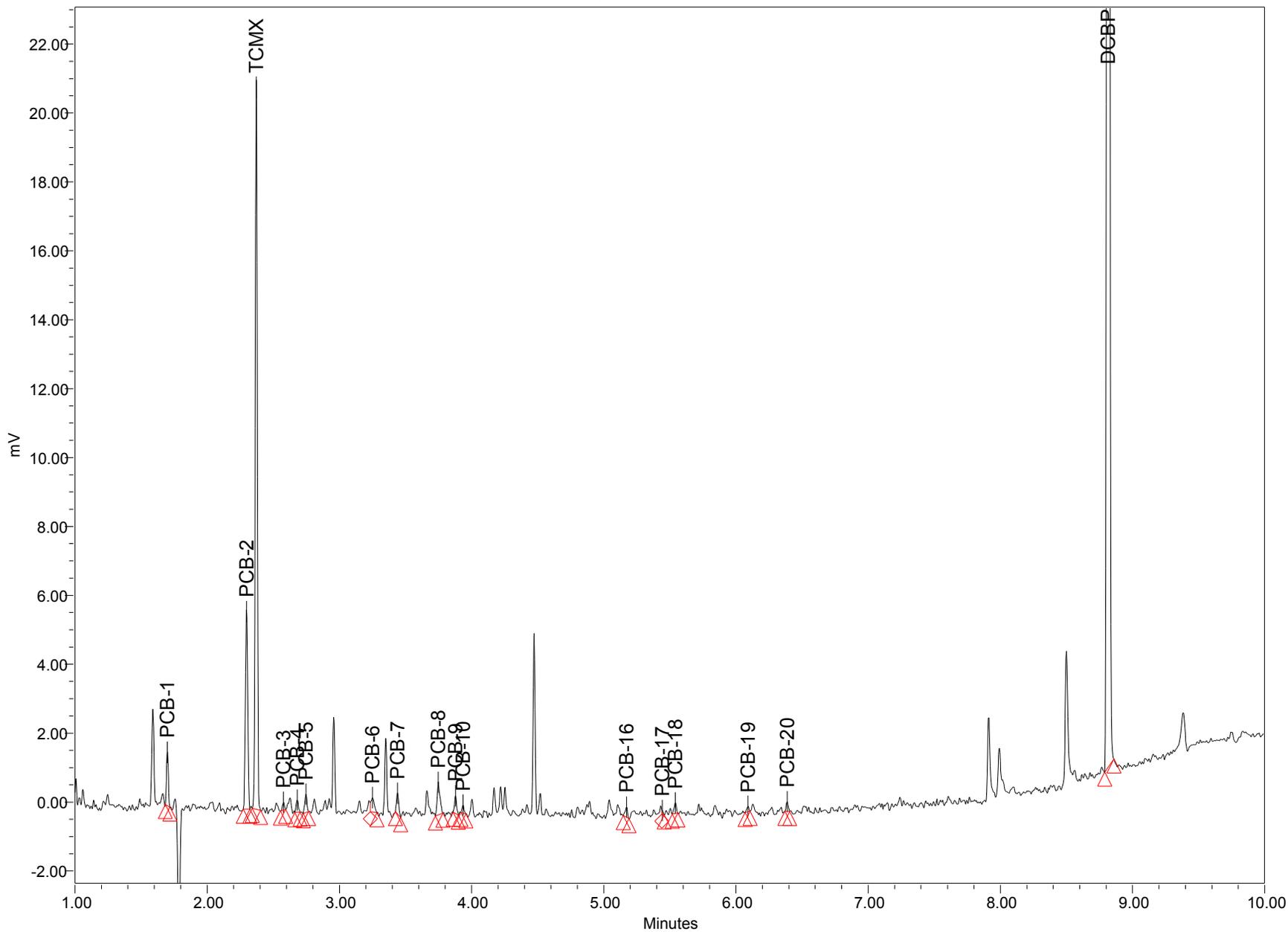
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.699          | bb               | 1565          |                      |             |             |
| 2  | PCB-2     | 2.297          | bb               | 7188          |                      |             |             |
| 3  | TCMX      | 2.371          | bb               | 22279         | 4.557                | 91.1        |             |
| 4  | PCB-3     | 2.577          | bb               | 244           |                      |             |             |
| 5  | PCB-4     | 2.680          | bb               | 414           |                      |             |             |
| 6  | PCB-5     | 2.747          | bb               | 598           |                      |             |             |
| 7  | PCB-6     | 3.250          | Vb               | 734           |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 719           |                      |             |             |
| 9  | PCB-8     | 3.748          | bb               | 1400          |                      |             |             |
| 10 | PCB-9     | 3.879          | bb               | 556           |                      |             |             |
| 11 | PCB-10    | 3.935          | bb               | 234           |                      |             |             |
| 12 | PCB-16    | 5.172          | bb               | 363           |                      |             |             |
| 13 | PCB-17    | 5.443          | vb               | 63            |                      |             |             |
| 14 | PCB-18    | 5.542          | bb               | 378           |                      |             |             |
| 15 | PCB-19    | 6.091          | bb               | 180           |                      |             |             |
| 16 | PCB-20    | 6.387          | bb               | 294           |                      |             |             |
| 17 | DCBP      | 8.815          | bb               | 183166        | 44.507               |             | 89.0        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 3643.6987           | 4.154                | 0.01997     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 10008.3771          | 39.834               | 0.19151     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 2820.1211           | 12.404               | 0.05964     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 9410.8738           | 75.003               | 0.36059     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 3507.5352           | 8.031                | 0.03861     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 1551.3239           | 7.140                | 0.03433     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 3643.6987           | 5.363                | 0.02578     | 0.0250   | 0.00873  | X      | AD   |
| 8 | A1254       | 1277.7471           | 1.419                | 0.00682     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1254-17/18 | 836.4922            | 1.637                | 0.00787     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1254-19/20 | 804.5818            | 1.412               | 0.00679     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254-20    | 984.2315            | 1.474               | 0.00709     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1260       | 293.5156            | 0.126               | 0.00060     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1260-23/24 | 293.5156            | 0.740               | 0.00356     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1262       | 293.5156            |                     |             |          |          | NR     |      |



SampleName AS12335; Sample\_ID FRS-LOC5-T150607125229

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |  |
|--|--|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060189</u>                  |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>15060189-03</u>               |
| Matrix: <u>Water</u>   | Client ID: <u>FRS-WAFA-T150607125316</u> |
| Sample wt(Dry)/vol: <u>1040 mL</u>                                     | Lab Sample ID: <u>AS12336</u>            |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-9</u>         |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>06/07/2015</u>         |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/07/2015</u>        |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>         |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>                |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.144                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0431                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

|                    |                         |                     |                          |
|--------------------|-------------------------|---------------------|--------------------------|
| Sample Name:       | AS12336                 | Sample Amount (L) : | 1.0400                   |
| Sample ID:         | FRS-WAFA-T150607125316  | Dilution:           | 5                        |
| Date Acquired:     | 6/8/2015 9:38:38 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 10:10:35 AM EDT |
| Sample Set Name:   | GC28F_060815A           | User Name:          | Rachael Fiñe (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                 |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:29:41 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-9 [m]         |

**Peak Results**

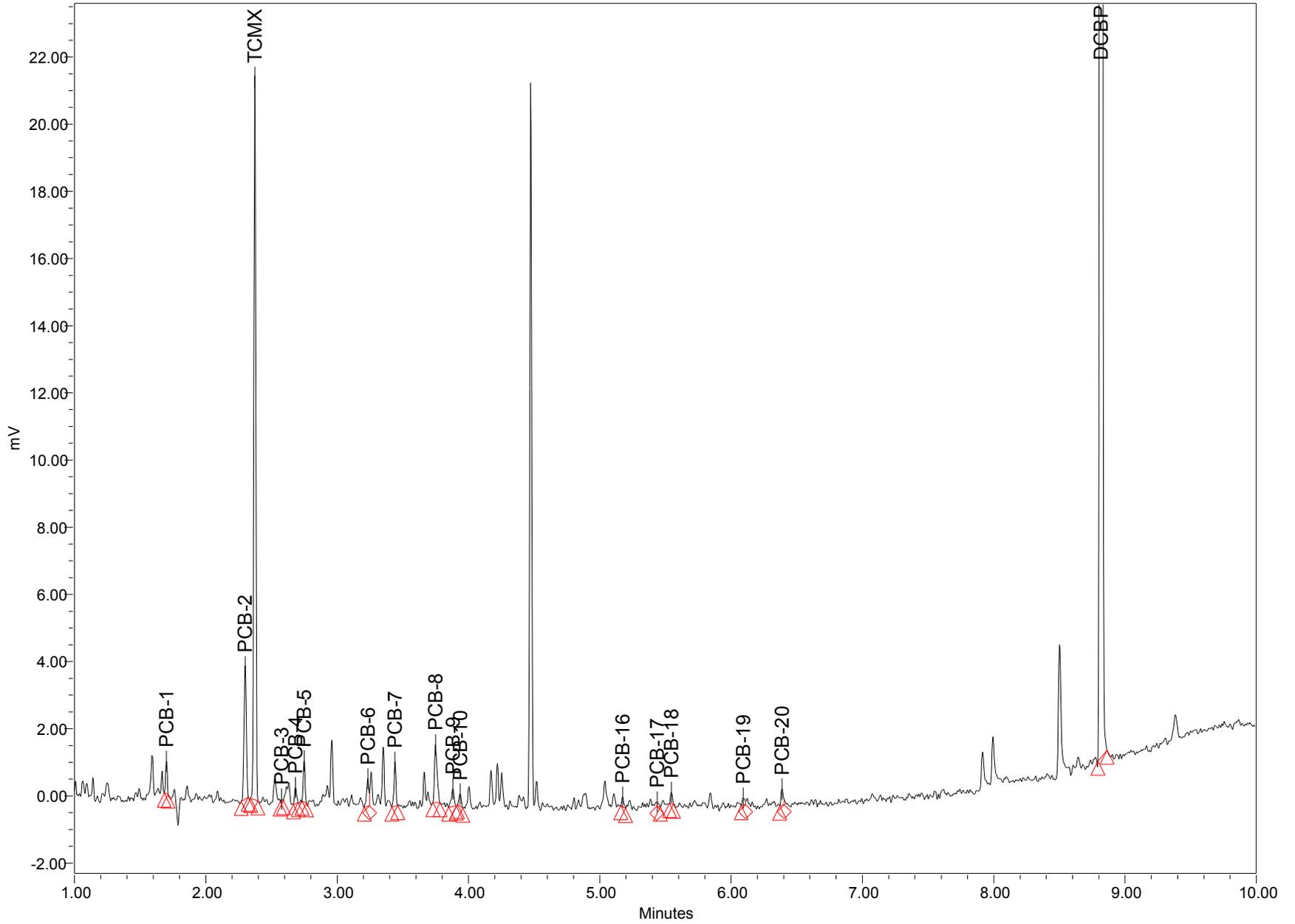
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.700          | bb               | 867           |                      |             |             |
| 2  | PCB-2     | 2.300          | bb               | 4916          |                      |             |             |
| 3  | TCMX      | 2.373          | bb               | 22412         | 4.585                | 91.7        |             |
| 4  | PCB-3     | 2.578          | bb               | 54            |                      |             |             |
| 5  | PCB-4     | 2.682          | bb               | 534           |                      |             |             |
| 6  | PCB-5     | 2.749          | bb               | 1174          |                      |             |             |
| 7  | PCB-6     | 3.233          | bV               | 1005          |                      |             |             |
| 8  | PCB-7     | 3.440          | bb               | 1367          |                      |             |             |
| 9  | PCB-8     | 3.749          | bb               | 2437          |                      |             |             |
| 10 | PCB-9     | 3.881          | bb               | 762           |                      |             |             |
| 11 | PCB-10    | 3.937          | bb               | 445           |                      |             |             |
| 12 | PCB-16    | 5.174          | bb               | 312           |                      |             |             |
| 13 | PCB-17    | 5.438          | vb               | 138           |                      |             |             |
| 14 | PCB-18    | 5.545          | bb               | 349           |                      |             |             |
| 15 | PCB-19    | 6.093          | bV               | 295           |                      |             |             |
| 16 | PCB-20    | 6.388          | bv               | 564           |                      |             |             |
| 17 | DCBP      | 8.817          | bb               | 191318        | 46.640               |             | 93.3        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 6017.2441           | 6.977                | 0.03354     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 7544.0341           | 30.042               | 0.14443     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 2628.2159           | 11.602               | 0.05578     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 6370.4913           | 50.908               | 0.24475     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 6185.5880           | 14.171               | 0.06813     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 2986.5280           | 14.185               | 0.06820     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 6017.2441           | 8.973                | 0.04314     | 0.0250   | 0.00873  | X      | AD   |
| 8 | A1254       | 1658.5500           | 1.762                | 0.00847     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1254-17/18 | 1171.0193           | 2.153                | 0.01035     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1254-19/20 | 799.2476            | 1.404               | 0.00675     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254-20    | 1094.6507           | 1.603               | 0.00771     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1260       | 563.8993            | 0.348               | 0.00167     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1260-23/24 | 563.8993            | 1.011               | 0.00486     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1262       | 563.8993            |                     |             |          |          | NR     |      |



SampleName AS12336; Sample\_ID FRS-WAFA-T150607125316

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                               |
|-----------------------|---|------------------|-------------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060189</u>               |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>15060189-04RR1</u>         |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>FRS-WAFA-T150607125337</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS12337RR1</u>             |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1637-13</u>          |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>06/07/2015</u>             |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/07/2015</u>             |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/08/2015</u>             |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                      |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>                    |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q  |
|------------|---------------|-----------------------|----|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U  |
| 11104-28-2 | Aroclor 1221  | 0.195                 | PB |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U  |
| 53469-21-9 | Aroclor 1242  | 0.0644                | AD |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U  |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U  |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U  |

Laboratory Qualifiers:

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                     |                          |
|--------------------|--------------------------|---------------------|--------------------------|
| Sample Name:       | AS12337RR1               | Sample Amount (L) : | 1.0000                   |
| Sample ID:         | FRS-WAFA-T150607125337   | Dilution:           | 5                        |
| Date Acquired:     | 6/8/2015 11:20:38 AM EDT | Extract Volume:     | 5                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed:     | 6/8/2015 11:35:27 AM EDT |
| Sample Set Name:   | GC28F_060815B            | User Name:          | Rachael Fi  (RachaelF)   |
| Processing Method: | GC28F_LLCC_031215        | Current Date:       | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:       | 11:56:27 AM US/Eastern   |
| Report Name:       | H2O rpt LIMS2 ugL        | LIMS File ID:       | GC28F-1637-13 [m]        |

**Peak Results**

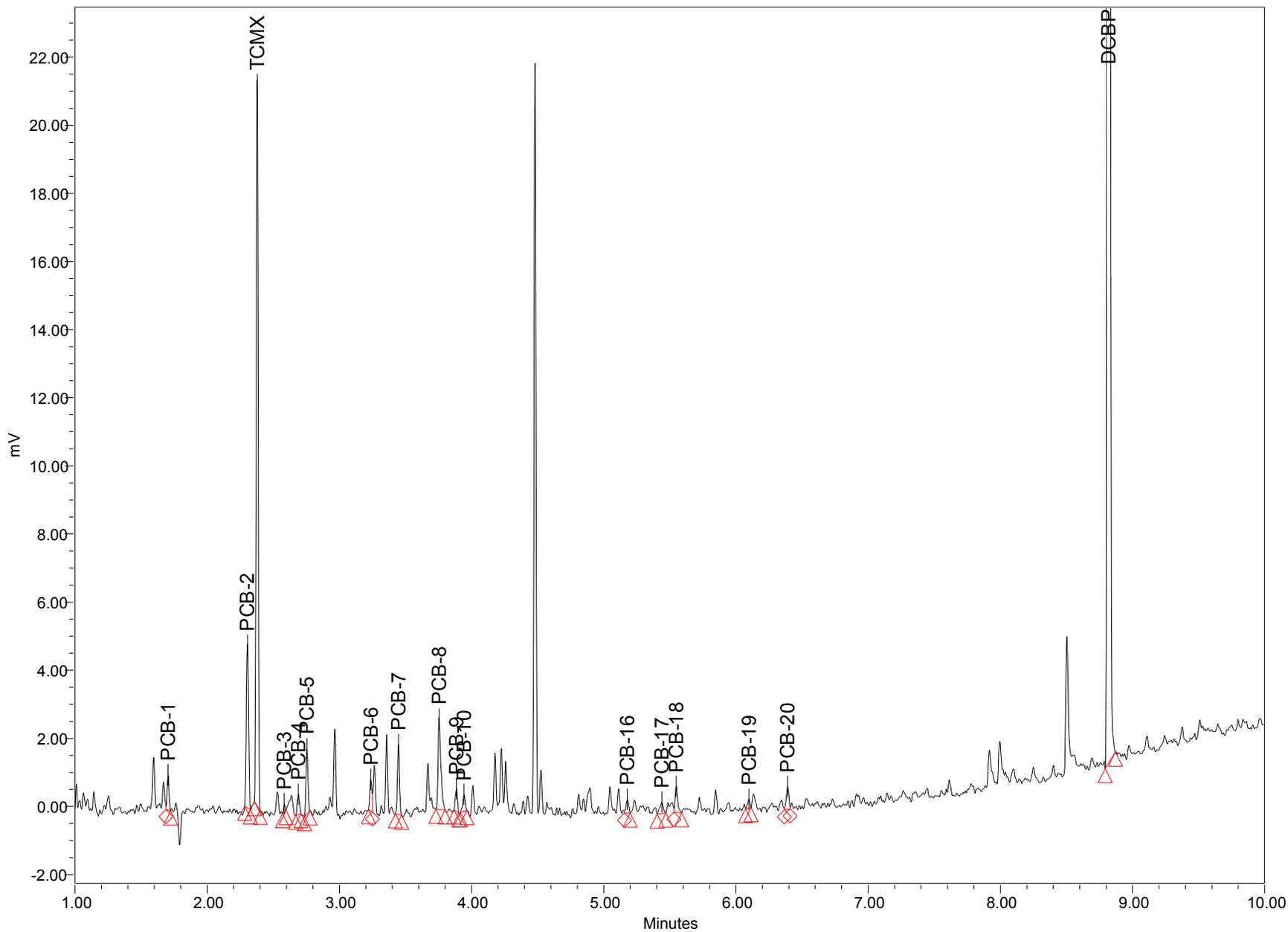
|    | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|----|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1  | PCB-1     | 1.704          | Vb               | 1048          |                      |             |             |
| 2  | PCB-2     | 2.304          | bb               | 5781          |                      |             |             |
| 3  | TCMX      | 2.378          | bb               | 22040         | 4.507                | 90.1        |             |
| 4  | PCB-3     | 2.583          | bb               | 187           |                      |             |             |
| 5  | PCB-4     | 2.689          | bb               | 736           |                      |             |             |
| 6  | PCB-5     | 2.754          | bb               | 2023          |                      |             |             |
| 7  | PCB-6     | 3.238          | bV               | 1033          |                      |             |             |
| 8  | PCB-7     | 3.447          | bb               | 2196          |                      |             |             |
| 9  | PCB-8     | 3.754          | bb               | 3950          |                      |             |             |
| 10 | PCB-9     | 3.886          | bb               | 765           |                      |             |             |
| 11 | PCB-10    | 3.943          | bb               | 641           |                      |             |             |
| 12 | PCB-16    | 5.178          | vb               | 570           |                      |             |             |
| 13 | PCB-17    | 5.439          | bb               | 612           |                      |             |             |
| 14 | PCB-18    | 5.548          | Vb               | 1002          |                      |             |             |
| 15 | PCB-19    | 6.098          | bb               | 318           |                      |             |             |
| 16 | PCB-20    | 6.391          | VV               | 872           |                      |             |             |
| 17 | DCBP      | 8.820          | bb               | 196150        | 47.904               |             | 95.8        |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|-------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016       | 8585.8430           | 10.032               | 0.05016     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221       | 9775.1291           | 38.907               | 0.19454     | 0.0250   | 0.00873  | X      | PB   |
| 3 | A1221-2     | 3993.7101           | 17.309               | 0.08655     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1221-5     | 7752.4526           | 61.860               | 0.30930     | 0.0250   | 0.00873  | NR     |      |
| 5 | A1232       | 9575.1102           | 21.942               | 0.10971     | 0.0250   | 0.00873  | NR     |      |
| 6 | A1232-8/9   | 4859.8060           | 23.380               | 0.11690     | 0.0250   | 0.00873  | NR     |      |
| 7 | A1242       | 8585.8430           | 12.880               | 0.06440     | 0.0250   | 0.00873  | X      | AD   |
| 8 | A1254       | 3374.3606           | 3.304                | 0.01652     | 0.0250   | 0.00873  | NR     |      |
| 9 | A1254-17/18 | 1760.1960           | 3.062                | 0.01531     | 0.0250   | 0.00873  | NR     |      |

Group Results

|    | Group Name  | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|----|-------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 10 | A1254-19/20 | 2184.2206           | 3.534               | 0.01767     | 0.0250   | 0.00873  | NR     |      |
| 11 | A1254-20    | 2502.4005           | 3.246               | 0.01623     | 0.0250   | 0.00873  | NR     |      |
| 12 | A1260       | 871.9601            | 0.600               | 0.00300     | 0.0250   | 0.00873  | NR     |      |
| 13 | A1260-23/24 | 871.9601            | 1.320               | 0.00660     | 0.0250   | 0.00873  | NR     |      |
| 14 | A1262       | 871.9601            |                     |             |          |          | NR     |      |



SampleName AS12337RR1; Sample\_ID FRS-WAFA-T150607125337

# ANALYTICAL SEQUENCE (GC28F)

**8-D-1  
PCB ANALYTICAL SEQUENCE**

Laboratory Name: Pace Analytical Services, Inc.

SDG No: 15060189

ELAP ID No: 11078

Instrument ID: GC28F

Init. Calib. Date(s): 03/12/15,03/13/15

GC Column (1): Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

THE ANALYTICAL SEQUENCE OF SAMPLES, QC, AND STANDARDS IS GIVEN BELOW:

| SURROGATE RETENTION TIME (RT) FROM INITIAL OR CONTINUING CALIBRATION |               |             |                      |                            |                            |      |
|--|---------------|-------------|----------------------|----------------------------|----------------------------|------|
|  |               |             | TCMX RT: <u>2.38</u> | DCBP RT: <u>8.83</u>       |                            |      |
| CLIENT SAMPLE ID   | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED | TCMX RT #<br>(+/-0.05 min) | DCBP RT #<br>(+/-0.10 min) |      |
| 01   | A1016 5 PPB   | 031216A     | GC28F-1565-3         | 03/12/2015 13:57:39        | 2.38                       | 8.83 |
| 02   | A1016 10 PPB  | 031216B     | GC28F-1565-4         | 03/12/2015 14:11:27        | 2.38                       | 8.83 |
| 03   | A1016 20 PPB  | 031216C     | GC28F-1565-5         | 03/12/2015 14:25:14        | 2.38                       | 8.83 |
| 04   | A1016 50 PPB  | 031216D     | GC28F-1565-6         | 03/12/2015 14:39:04        | 2.38                       | 8.83 |
| 05   | A1016 100 PPB | 031216E     | GC28F-1565-7         | 03/12/2015 14:53:09        | 2.38                       | 8.83 |
| 06   | A1221 5 PPB   | 031221A     | GC28F-1565-8         | 03/12/2015 15:07:01        | 2.38                       | 8.83 |
| 07   | A1221 10 PPB  | 031221B     | GC28F-1565-9         | 03/12/2015 15:20:43        | 2.38                       | 8.83 |
| 08   | A1221 20 PPB  | 031221C     | GC28F-1565-10        | 03/12/2015 15:34:28        | 2.38                       | 8.83 |
| 09   | A1221 50 PPB  | 031221D     | GC28F-1565-11        | 03/12/2015 15:48:19        | 2.38                       | 8.83 |
| 10   | A1221 100 PPB | 031221E     | GC28F-1565-12        | 03/12/2015 16:02:27        | 2.38                       | 8.83 |
| 11   | A1232 5 PPB   | 031232A     | GC28F-1565-13        | 03/12/2015 16:16:15        | 2.38                       | 8.83 |
| 12   | A1232 10 PPB  | 031232B     | GC28F-1565-14        | 03/12/2015 16:30:03        | 2.38                       | 8.83 |
| 13   | A1232 20 PPB  | 031232C     | GC28F-1565-15        | 03/12/2015 16:43:54        | 2.38                       | 8.83 |
| 14   | A1232 50 PPB  | 031232D     | GC28F-1565-16        | 03/12/2015 16:57:42        | 2.38                       | 8.83 |
| 15   | A1232 100 PPB | 031232E     | GC28F-1565-17        | 03/12/2015 17:11:44        | 2.38                       | 8.83 |
| 16   | A1242 5 PPB   | 031242A     | GC28F-1565-18        | 03/12/2015 17:25:30        | 2.38                       | 8.83 |
| 17   | A1242 10 PPB  | 031242B     | GC28F-1565-19        | 03/12/2015 17:39:16        | 2.38                       | 8.83 |
| 18   | A1242 20 PPB  | 031242C     | GC28F-1565-20        | 03/12/2015 17:52:57        | 2.38                       | 8.83 |
| 19   | A1242 50 PPB  | 031242D     | GC28F-1565-21        | 03/12/2015 18:06:59        | 2.38                       | 8.83 |
| 20   | A1242 100 PPB | 031242E     | GC28F-1565-22        | 03/12/2015 18:21:10        | 2.38                       | 8.83 |
| 21   | A1248 5 PPB   | 031248A     | GC28F-1565-23        | 03/12/2015 18:34:59        | 2.38                       | 8.83 |
| 22   | A1248 10 PPB  | 031248B     | GC28F-1565-24        | 03/12/2015 18:48:48        | 2.38                       | 8.83 |
| 23   | A1248 20 PPB  | 031248C     | GC28F-1565-25        | 03/12/2015 19:02:36        | 2.38                       | 8.83 |
| 24   | A1248 50 PPB  | 031248D     | GC28F-1565-26        | 03/12/2015 19:16:26        | 2.38                       | 8.83 |
| 25   | A1248 100 PPB | 031248E     | GC28F-1565-27        | 03/12/2015 19:30:37        | 2.38                       | 8.83 |
| 26   | A1254 5 PPB   | 031254A     | GC28F-1565-28        | 03/12/2015 19:44:41        | 2.38                       | 8.83 |
| 27   | A1254 10 PPB  | 031254B     | GC28F-1565-29        | 03/12/2015 19:58:31        | 2.38                       | 8.83 |
| 28   | A1254 20 PPB  | 031254C     | GC28F-1565-30        | 03/12/2015 20:12:24        | 2.38                       | 8.83 |
| 29   | A1254 50 PPB  | 031254D     | GC28F-1565-31        | 03/12/2015 20:26:35        | 2.38                       | 8.83 |
| 30   | A1254 100 PPB | 031254E     | GC28F-1565-32        | 03/12/2015 20:40:04        | 2.38                       | 8.83 |
| 31   | A1260 5 PPB   | 031260A     | GC28F-1565-33        | 03/12/2015 20:53:32        | 2.38                       | 8.83 |
| 32   | A1260 10 PPB  | 031260B     | GC28F-1565-34        | 03/12/2015 21:07:43        | 2.38                       | 8.83 |
| 33   | A1260 20 PPB  | 031260C     | GC28F-1565-35        | 03/12/2015 21:21:49        | 2.38                       | 8.83 |
| 34   | A1260 50 PPB  | 031260D     | GC28F-1565-36        | 03/12/2015 21:35:58        | 2.38                       | 8.83 |
| 35   | A1260 100 PPB | 031260E     | GC28F-1565-37        | 03/12/2015 21:49:38        | 2.38                       | 8.83 |
| 36   | A1262 5 PPB   | 031262A     | GC28F-1565-38        | 03/12/2015 22:03:00        | 2.38                       | 8.83 |
| 37   | A1262 10 PPB  | 031262B     | GC28F-1565-39        | 03/12/2015 22:17:01        | 2.38                       | 8.83 |
| 38   | A1262 20 PPB  | 031262C     | GC28F-1565-40        | 03/12/2015 22:30:47        | 2.38                       | 8.83 |

# Column used to flag surrogate retention times outside expected range.

FORM VIII-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9



# INITIAL CALIBRATION DATA (GC28F)

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060189

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1016 | GC28F-1565-3  | 031216A       | 5.00         | 862.050               |          |       |
|              | GC28F-1565-4  | 031216B       | 10.0         | 819.101               |          |       |
|              | GC28F-1565-5  | 031216C       | 20.0         | 891.620               |          |       |
|              | GC28F-1565-6  | 031216D       | 50.0         | 857.622               |          |       |
|              | GC28F-1565-7  | 031216E       | 100          | 830.721               | 852.223  | 3.3   |
| Aroclor 1221 | GC28F-1565-8  | 031221A       | 5.00         | 240.577               |          |       |
|              | GC28F-1565-9  | 031221B       | 10.0         | 261.453               |          |       |
|              | GC28F-1565-10 | 031221C       | 20.0         | 244.151               |          |       |
|              | GC28F-1565-11 | 031221D       | 50.0         | 256.412               |          |       |
|              | GC28F-1565-12 | 031221E       | 100          | 249.549               | 250.428  | 3.4   |
| Aroclor 1232 | GC28F-1565-13 | 031232A       | 5.00         | 425.857               |          |       |
|              | GC28F-1565-14 | 031232B       | 10.0         | 430.211               |          |       |
|              | GC28F-1565-15 | 031232C       | 20.0         | 461.339               |          |       |
|              | GC28F-1565-16 | 031232D       | 50.0         | 429.215               |          |       |
|              | GC28F-1565-17 | 031232E       | 100          | 435.975               | 436.519  | 3.3   |
| Aroclor 1242 | GC28F-1565-18 | 031242A       | 5.00         | 626.705               |          |       |
|              | GC28F-1565-19 | 031242B       | 10.0         | 687.551               |          |       |
|              | GC28F-1565-20 | 031242C       | 20.0         | 700.174               |          |       |
|              | GC28F-1565-21 | 031242D       | 50.0         | 671.171               |          |       |
|              | GC28F-1565-22 | 031242E       | 100          | 646.543               | 666.429  | 4.5   |
| Aroclor 1248 | GC28F-1565-23 | 031248A       | 5.00         | 797.257               |          |       |
|              | GC28F-1565-24 | 031248B       | 10.0         | 794.781               |          |       |
|              | GC28F-1565-25 | 031248C       | 20.0         | 774.131               |          |       |
|              | GC28F-1565-26 | 031248D       | 50.0         | 725.393               |          |       |
|              | GC28F-1565-27 | 031248E       | 100          | 749.464               | 768.205  | 4.0   |
| Aroclor 1254 | GC28F-1565-28 | 031254A       | 5.00         | 1035.449              |          |       |
|              | GC28F-1565-29 | 031254B       | 10.0         | 1083.118              |          |       |
|              | GC28F-1565-30 | 031254C       | 20.0         | 1125.937              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 1090.177              |          |       |
|              | GC28F-1565-32 | 031254E       | 100          | 1112.270              | 1089.390 | 3.2   |
| Aroclor 1260 | GC28F-1565-33 | 031260A       | 5.00         | 1259.968              |          |       |
|              | GC28F-1565-34 | 031260B       | 10.0         | 1279.464              |          |       |
|              | GC28F-1565-35 | 031260C       | 20.0         | 1180.854              |          |       |
|              | GC28F-1565-36 | 031260D       | 50.0         | 1189.838              |          |       |
|              | GC28F-1565-37 | 031260E       | 100          | 1241.304              | 1230.290 | 3.5   |
| Aroclor 1262 | GC28F-1565-38 | 031262A       | 5.00         | 1299.145              |          |       |
|              | GC28F-1565-39 | 031262B       | 10.0         | 1474.054              |          |       |
|              | GC28F-1565-40 | 031262C       | 20.0         | 1315.082              |          |       |
|              | GC28F-1565-41 | 031262D       | 50.0         | 1359.090              |          |       |
|              | GC28F-1565-42 | 031262E       | 100          | 1225.691              | 1334.610 | 6.9   |

FORM VI-CLP-PCB(PACE)

Print Date: 6/9/2015  
Lims Version : 5.0.8.9

6F-1  
PCB INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Laboratory Name: Pace Analytical Services, Inc.

SDG NO: 15060189

ELAP ID No: 11078

Date(s) Analyzed: 03/12/15,03/13/15

Instrument ID: GC28F

GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | AMOUNT (ppb) | TOTAL <sup>1</sup> RF | MEAN RF  | % RSD |
|--------------|---------------|---------------|--------------|-----------------------|----------|-------|
| Aroclor 1268 | GC28F-1565-43 | 031268A       | 5.00         | 2310.277              |          |       |
|              | GC28F-1565-44 | 031268B       | 10.0         | 2277.392              |          |       |
|              | GC28F-1565-45 | 031268C       | 20.0         | 2475.619              |          |       |
|              | GC28F-1565-46 | 031268D       | 50.0         | 2277.133              |          |       |
|              | GC28F-1565-47 | 031268E       | 100          | 2197.808              | 2307.650 | 4.4   |
| TCMX         | GC28F-1565-28 | 031254A       | 1.00         | 5239.809              |          |       |
|              | GC28F-1565-29 | 031254B       | 2.50         | 4970.944              |          |       |
|              | GC28F-1565-30 | 031254C       | 4.00         | 5058.998              |          |       |
|              | GC28F-1565-31 | 031254D       | 5.00         | 4821.865              |          |       |
|              | GC28F-1565-32 | 031254E       | 8.00         | 4809.511              | 4980.230 | 3.6   |
| DCBP         | GC28F-1565-28 | 031254A       | 10.0         | 5025.486              |          |       |
|              | GC28F-1565-29 | 031254B       | 25.0         | 4342.230              |          |       |
|              | GC28F-1565-30 | 031254C       | 40.0         | 4303.670              |          |       |
|              | GC28F-1565-31 | 031254D       | 50.0         | 4111.666              |          |       |
|              | GC28F-1565-32 | 031254E       | 80.0         | 3903.134              | 4337.240 | 9.7   |

% RSD Limit <= 20%

TCMX=TETRACHLOROMETAXYLENE

DCBP=DECACHLOROBIPHENYL

<sup>1</sup> Response factor calculated using total area of 5 peaks used to quantitate each Aroclor. Mean response factor not used in Aroclor quantitation, calibration curve by linear regression used for quantitation. Concentrations are nominal values, please see Calibration Curve Report Point Table for actual values.

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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A1016    |
|-----------|-------------|----------|
| 1         | 031216A     | 862.0496 |
| 2         | 031216B     | 819.1005 |
| 3         | 031216C     | 891.6202 |
| 4         | 031216D     | 857.6219 |
| 5         | 031216E     | 830.7212 |
| Mean      |             | 852.223  |
| Std. Dev. |             | 28.449   |
| % RSD     |             | 3.34     |

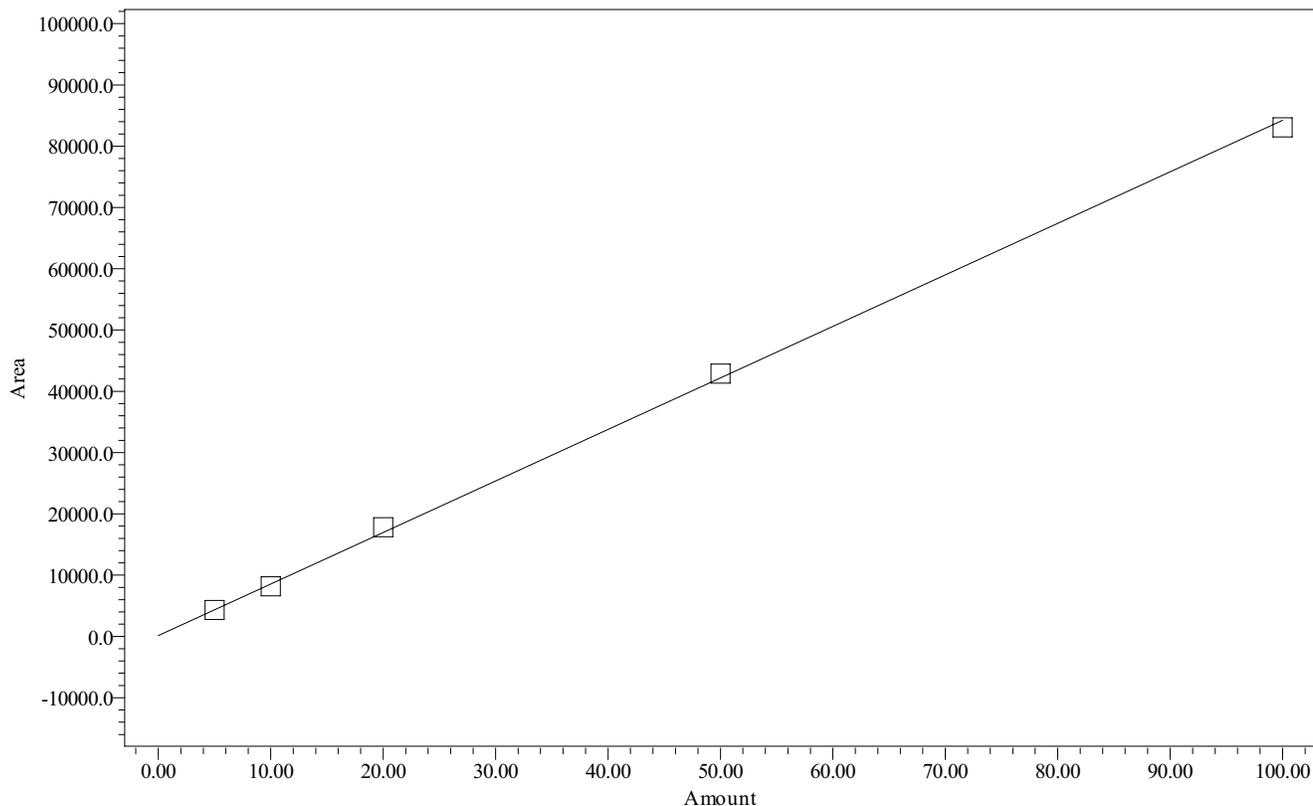
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1016                    | Coefficient constant A:           | 151.691533 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 840.694128 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999559   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999118   |

Calibration Curve



Point Table  
Peak: A1016

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1016 | 5.00       | 4310     | 4.9         | -1.068      | No     | No     |
| 2 | A 1016 | 10.00      | 8191     | 9.6         | -4.373      | No     | No     |
| 3 | A 1016 | 20.00      | 17832    | 21.0        | 5.155       | No     | No     |
| 4 | A 1016 | 50.00      | 42881    | 50.8        | 1.653       | No     | No     |
| 5 | A 1016 | 100.00     | 83072    | 98.6        | -1.367      | No     | No     |

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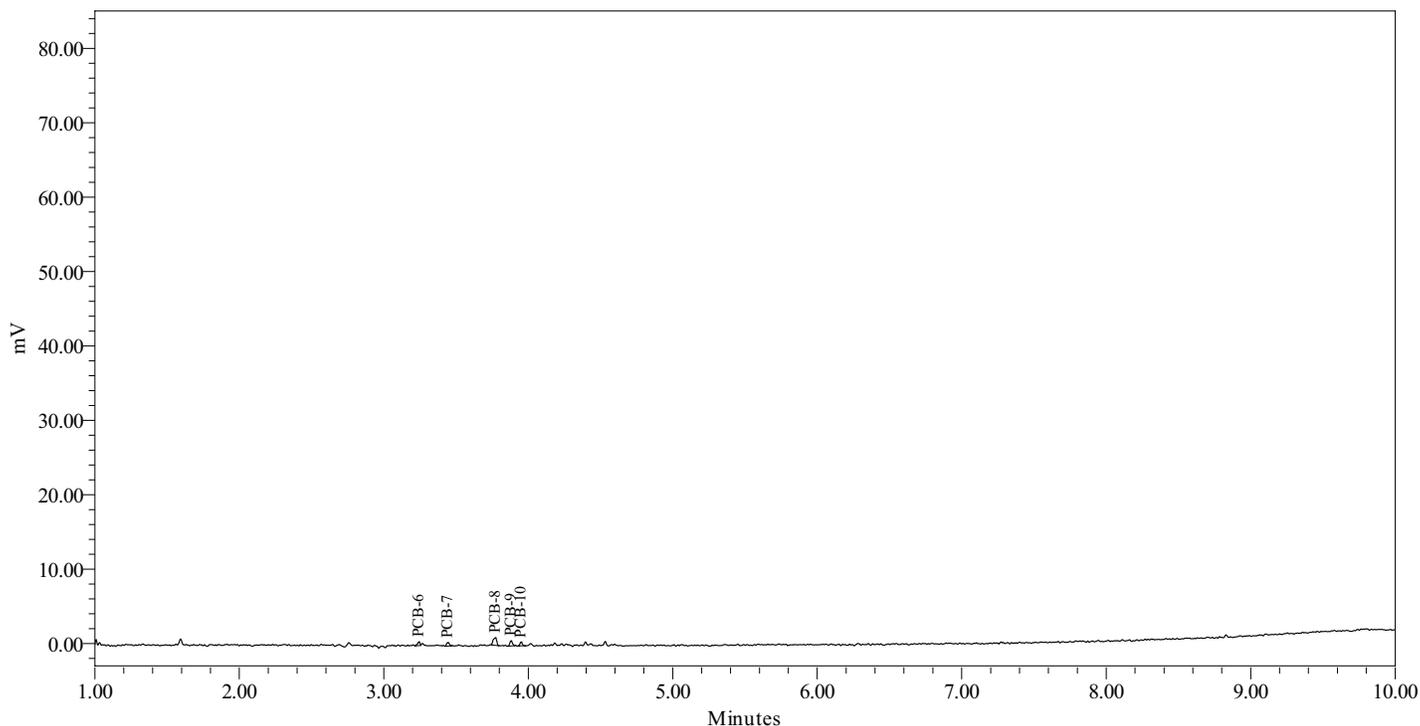
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 1:57:39 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:09 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:37:42 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-3 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 581           |
| 2 | PCB-7     | 3.443          | bb               | 610           |
| 3 | PCB-8     | 3.772          | bb               | 1737          |
| 4 | PCB-9     | 3.881          | bb               | 833           |
| 5 | PCB-10    | 3.950          | bb               | 550           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 4310                | 5.000                |
| 2 | A1232      | 3729                |                      |
| 3 | A1232-8/9  | 1159                |                      |
| 4 | A1242      | 4310                |                      |



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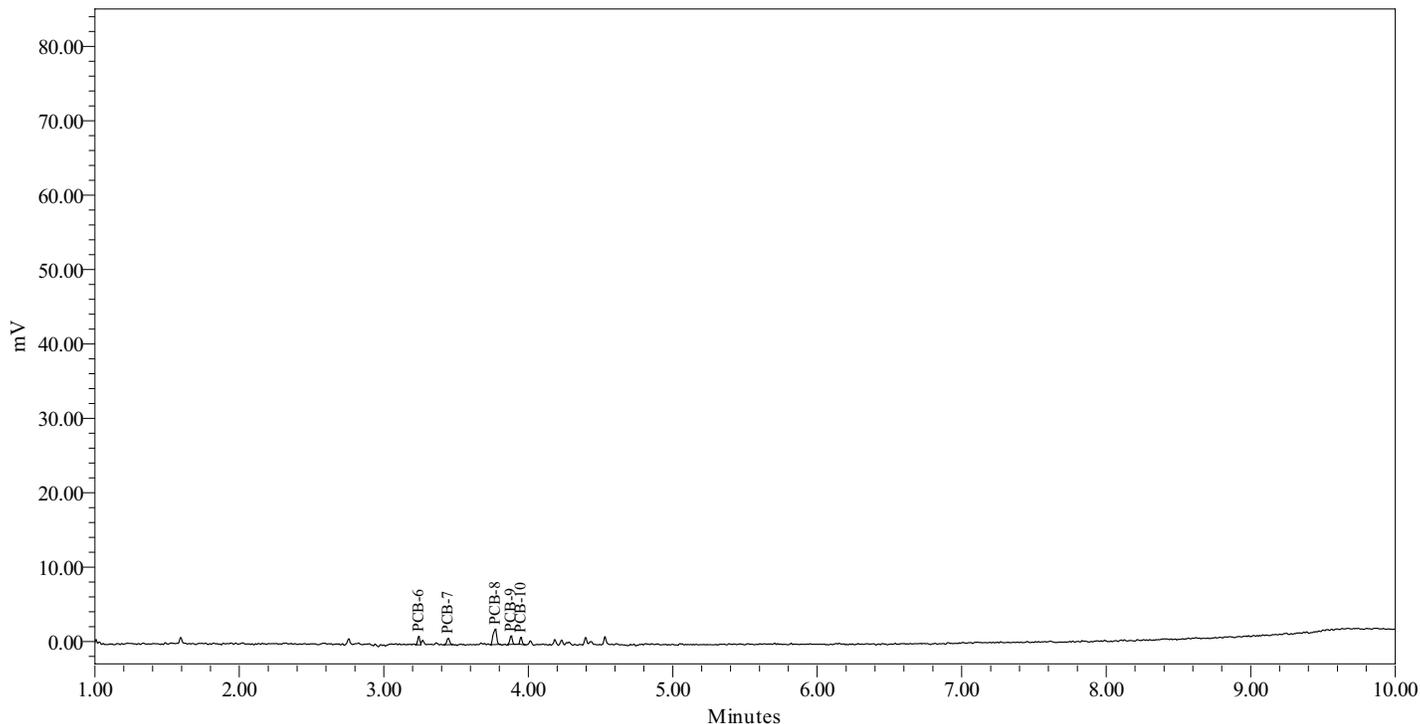
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:11:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:13 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-4 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 1182          |
| 2 PCB-7   | 3.445          | bb               | 1151          |
| 3 PCB-8   | 3.771          | bb               | 3544          |
| 4 PCB-9   | 3.881          | bb               | 1340          |
| 5 PCB-10  | 3.949          | bb               | 974           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 8191                | 10.000               |
| 2 A1232     | 7009                |                      |
| 3 A1232-8/9 | 2125                |                      |
| 4 A1242     | 8191                |                      |



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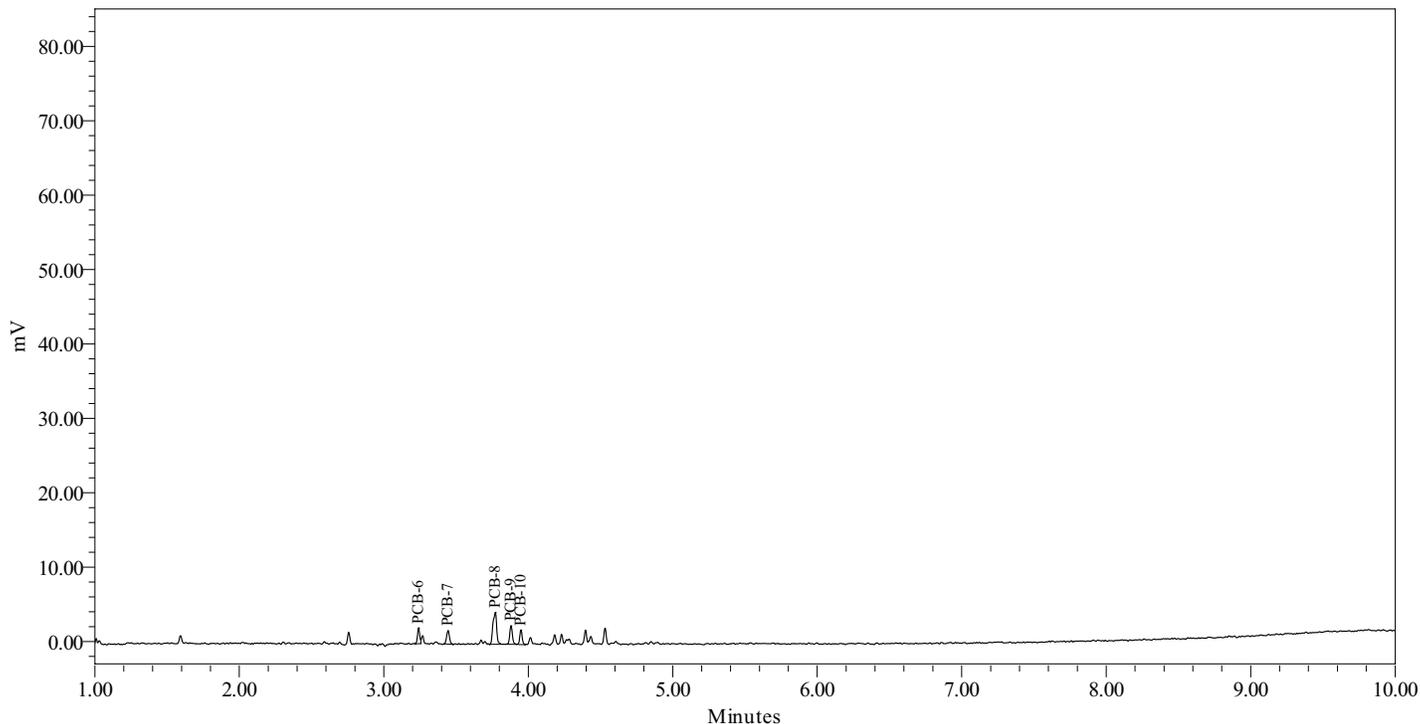
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:25:14 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:50:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:29 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-5 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bV               | 2349          |
| 2 | PCB-7     | 3.444          | bb               | 2467          |
| 3 | PCB-8     | 3.771          | bb               | 7692          |
| 4 | PCB-9     | 3.880          | bV               | 3110          |
| 5 | PCB-10    | 3.949          | Vb               | 2214          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 17832               | 20.000               |
| 2 | A1232      | 15483               |                      |
| 3 | A1232-8/9  | 4681                |                      |
| 4 | A1242      | 17832               |                      |



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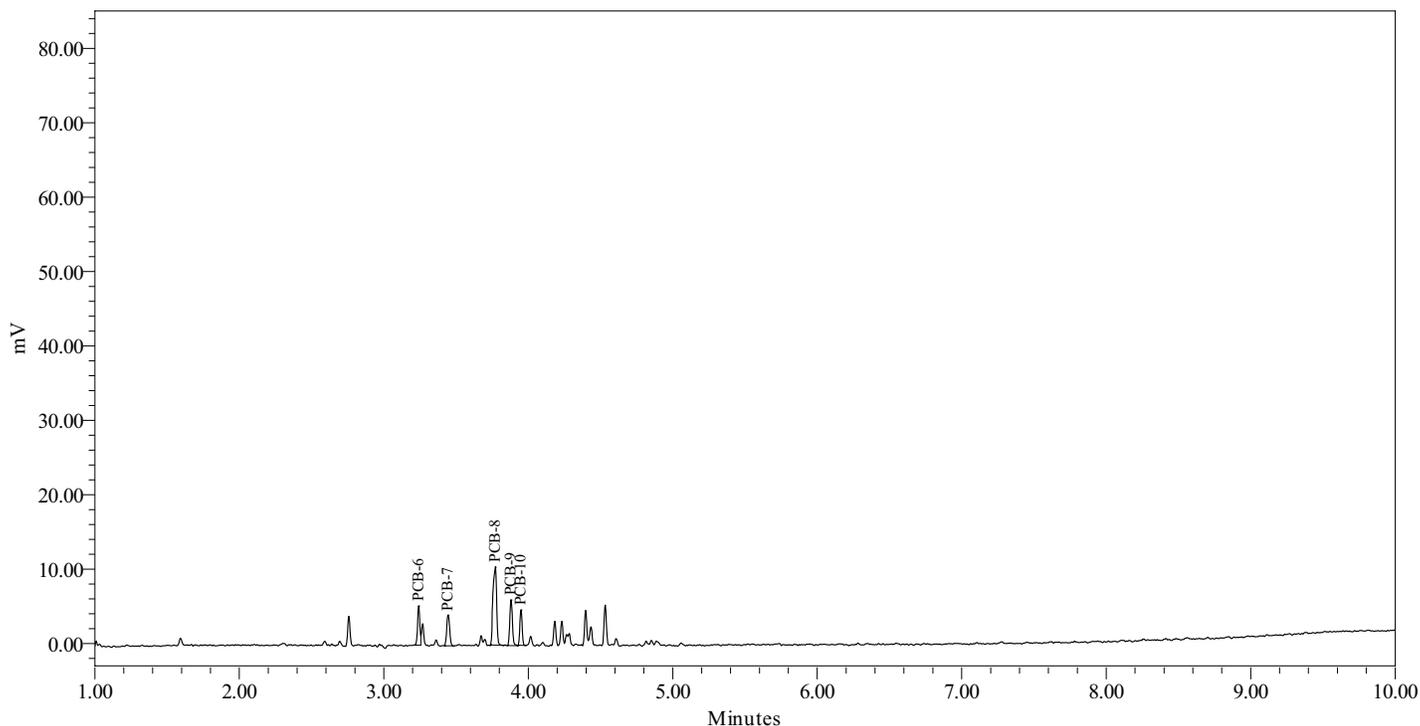
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:39:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:40 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-6 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.241          | bV               | 5859          |
| 2 PCB-7   | 3.445          | bb               | 5905          |
| 3 PCB-8   | 3.771          | bb               | 18491         |
| 4 PCB-9   | 3.881          | bB               | 7577          |
| 5 PCB-10  | 3.950          | Bb               | 5049          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 42881               | 50.000               |
| 2 A1232     | 37022               |                      |
| 3 A1232-8/9 | 10954               |                      |
| 4 A1242     | 42881               |                      |



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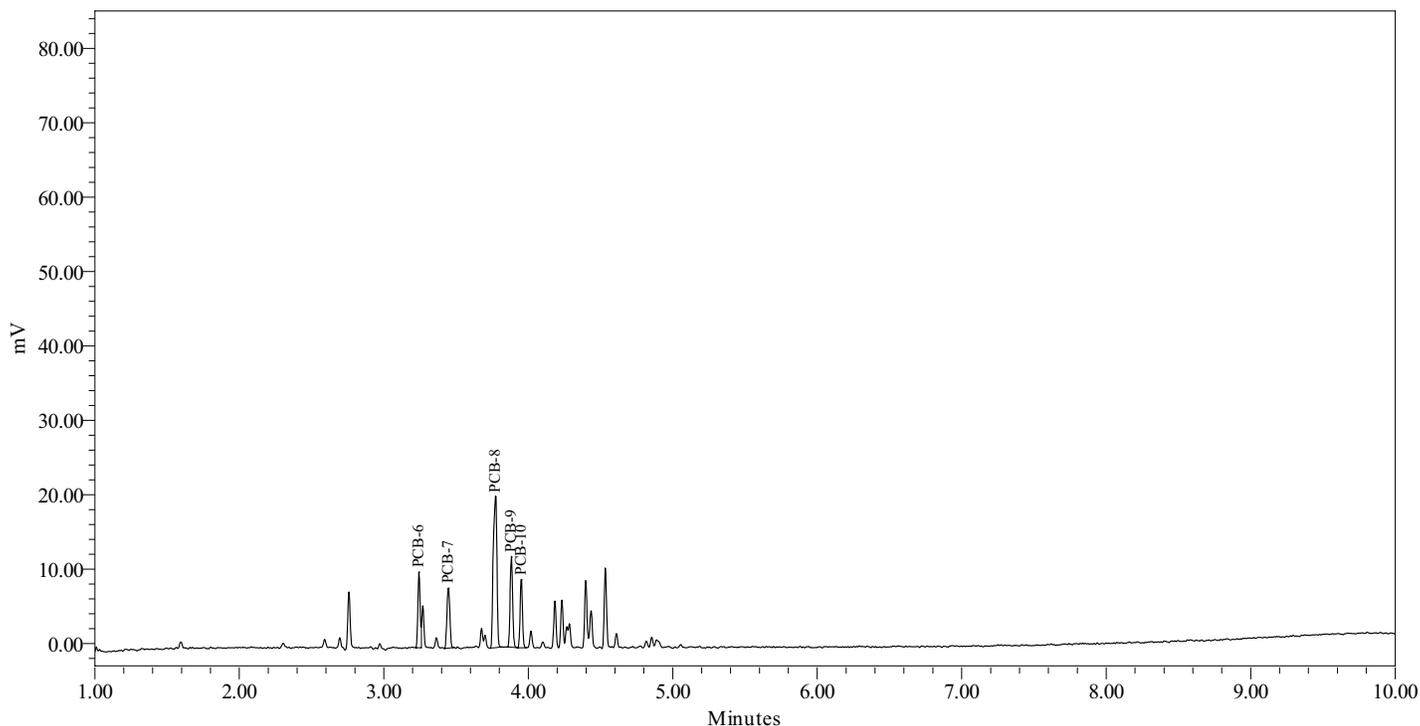
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031216E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1016 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 2:53:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:51:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:38:52 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-7 [m]         |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.243          | bV               | 11381         |
| 2 | PCB-7     | 3.447          | bb               | 11368         |
| 3 | PCB-8     | 3.773          | bb               | 35910         |
| 4 | PCB-9     | 3.883          | bB               | 14405         |
| 5 | PCB-10    | 3.951          | Bb               | 10008         |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 83072               | 100.000              |
| 2 | A1232      | 71691               |                      |
| 3 | A1232-8/9  | 21376               |                      |
| 4 | A1242      | 83072               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1221-2 | A 1221-5 | A 1221   |
|-----------|-------------|----------|----------|----------|
| 1         | 031221A     | 200.1393 | 110.9105 | 240.5774 |
| 2         | 031221B     | 234.3012 | 136.7623 | 261.4531 |
| 3         | 031221C     | 230.4484 | 110.4721 | 244.1508 |
| 4         | 031221D     | 239.1075 | 126.2523 | 256.4121 |
| 5         | 031221E     | 236.1763 | 126.3377 | 249.5485 |
| Mean      |             | 228.035  | 122.147  | 250.428  |
| Std. Dev. |             | 15.907   | 11.298   | 8.582    |
| % RSD     |             | 6.98     | 9.25     | 3.43     |

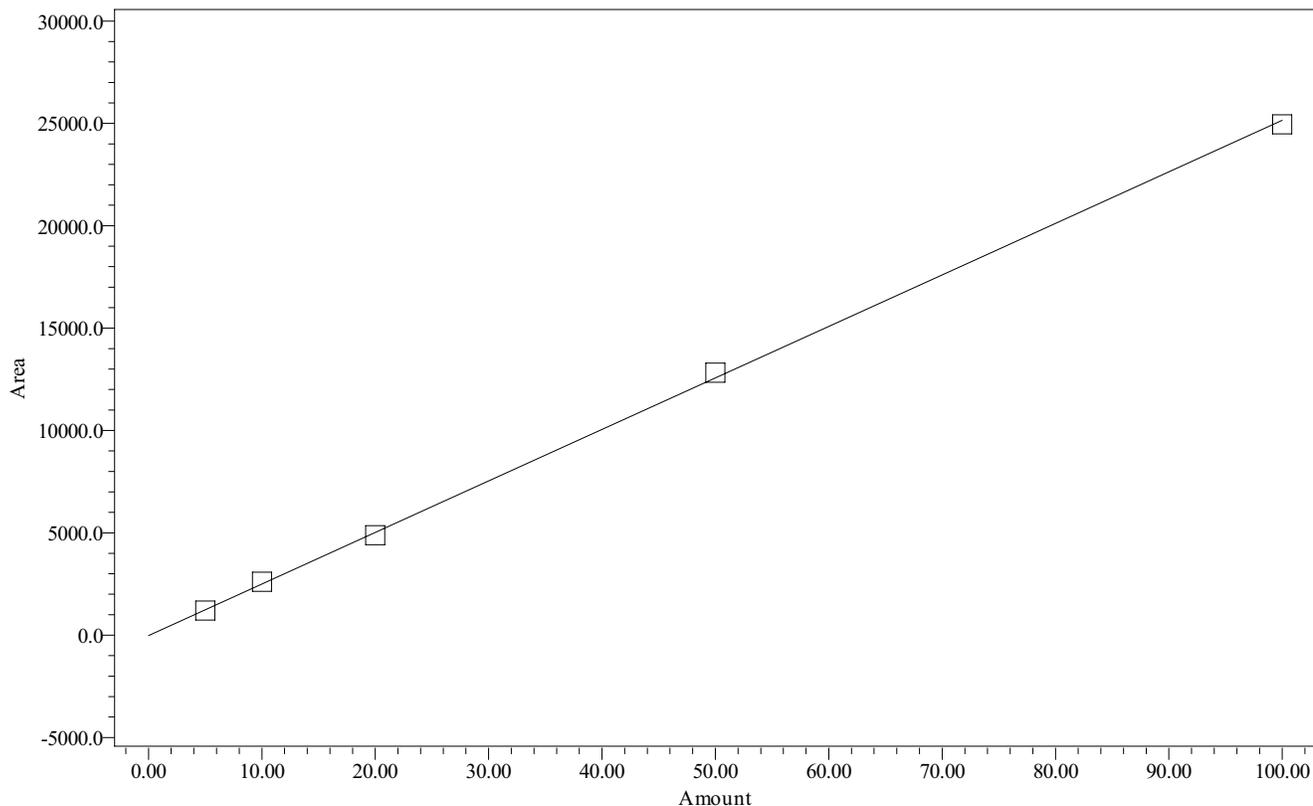
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221                    | Coefficient constant A:                       | -16.185578 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 251.658479 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999724   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999447   |

Calibration Curve



Point Table  
Peak: A1221

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221 | 5.00       | 1203     | 4.8         | -3.117      | No     | No     |
| 2 | A 1221 | 10.00      | 2615     | 10.5        | 4.535       | No     | No     |
| 3 | A 1221 | 20.00      | 4883     | 19.5        | -2.662      | No     | No     |
| 4 | A 1221 | 50.00      | 12821    | 51.0        | 2.018       | No     | No     |
| 5 | A 1221 | 100.00     | 24955    | 99.2        | -0.774      | No     | No     |

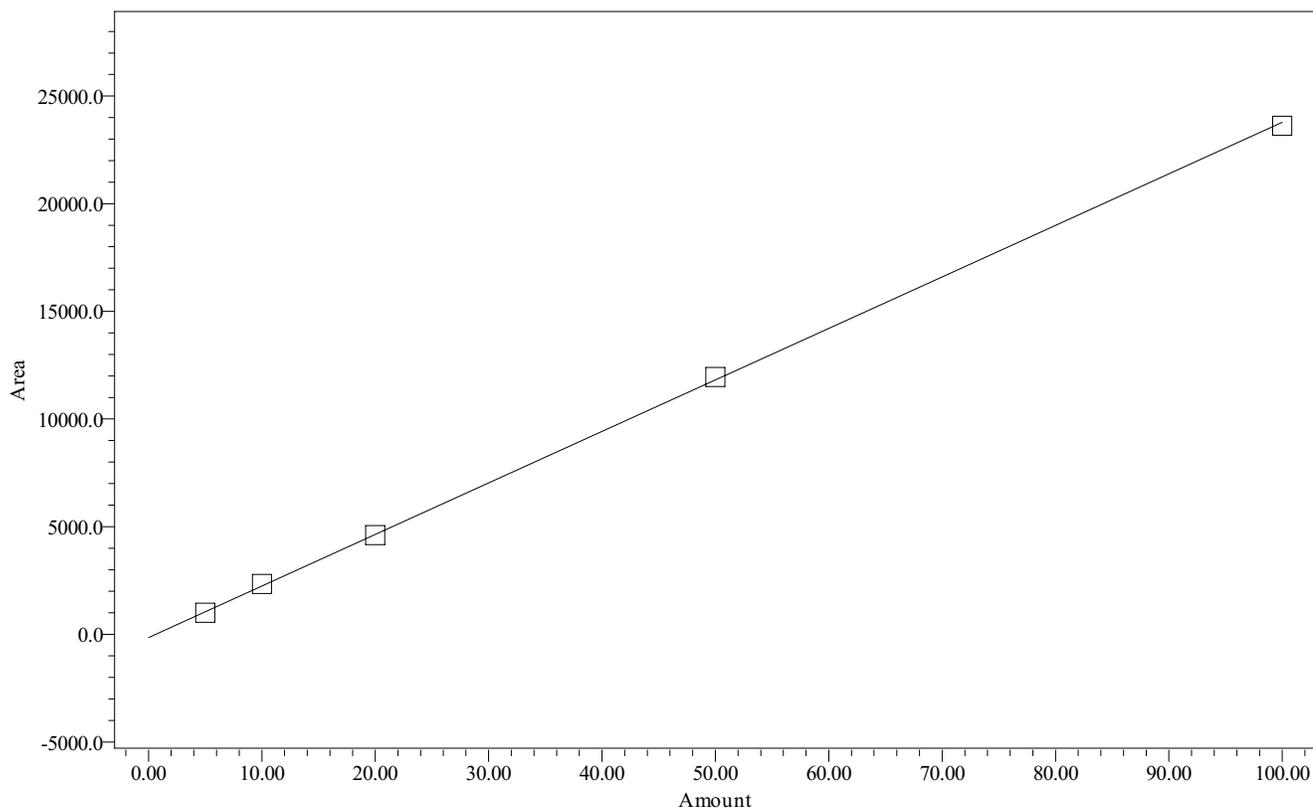
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1221-2                  | Coefficient constant A:           | -147.824908 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 239.269233  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999845    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999691    |

Calibration Curve



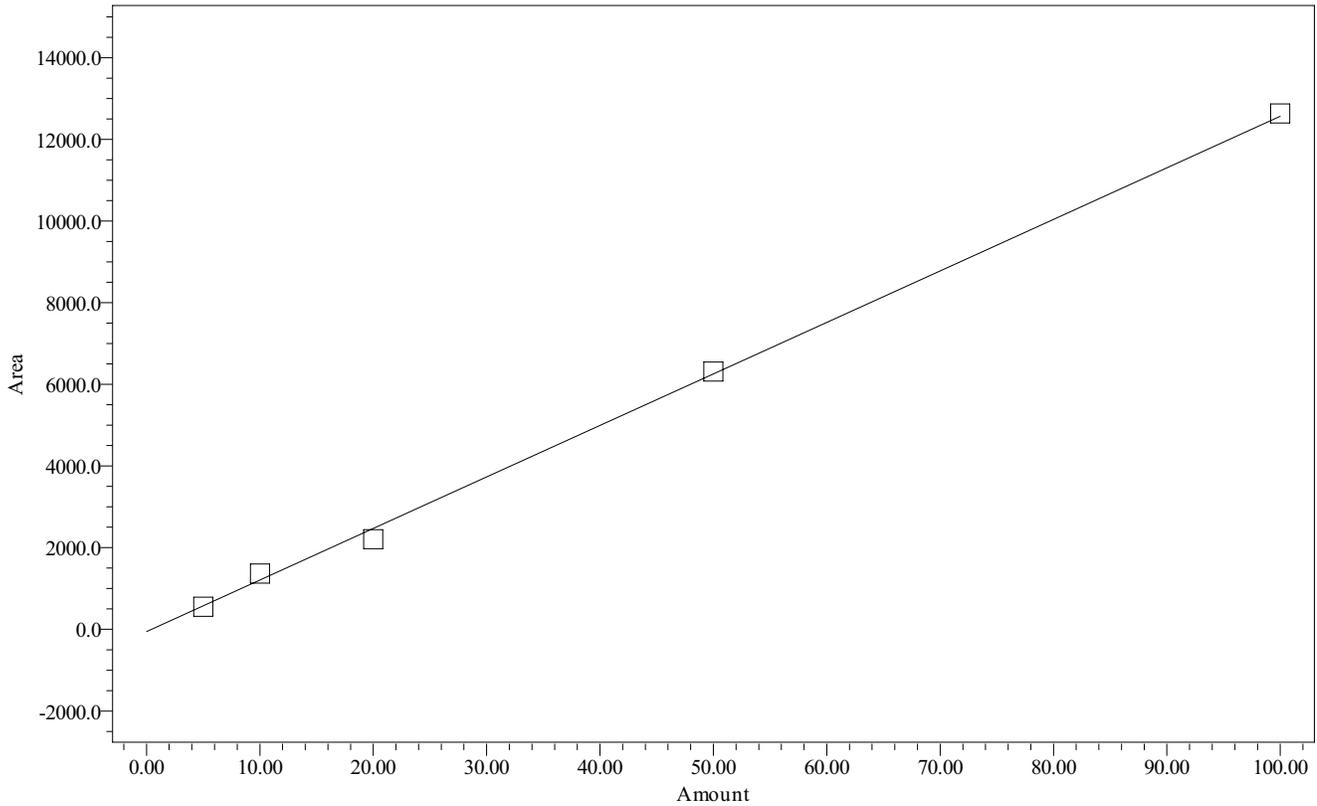
Point Table  
Peak: A1221-2

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-2 | 5.00       | 1001     | 4.8         | -3.998      | No     | No     |
| 2 | A 1221-2 | 10.00      | 2343     | 10.4        | 4.102       | No     | No     |
| 3 | A 1221-2 | 20.00      | 4609     | 19.9        | -0.597      | No     | No     |
| 4 | A 1221-2 | 50.00      | 11955    | 50.6        | 1.168       | No     | No     |
| 5 | A 1221-2 | 100.00     | 23618    | 99.3        | -0.675      | No     | No     |

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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1221-5                  | Coefficient constant A:                       | -53.069446 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 126.180272 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.998383   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.996769   |

Calibration Curve



Point Table  
Peak: A1221-5

|   | Name     | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1221-5 | 5.00       | 555      | 4.8         | -3.690      | No     | No     |
| 2 | A 1221-5 | 10.00      | 1368     | 11.3        | 12.592      | No     | No     |
| 3 | A 1221-5 | 20.00      | 2209     | 17.9        | -10.346     | No     | No     |
| 4 | A 1221-5 | 50.00      | 6313     | 50.4        | 0.898       | No     | No     |
| 5 | A 1221-5 | 100.00     | 12634    | 100.5       | 0.545       | No     | No     |

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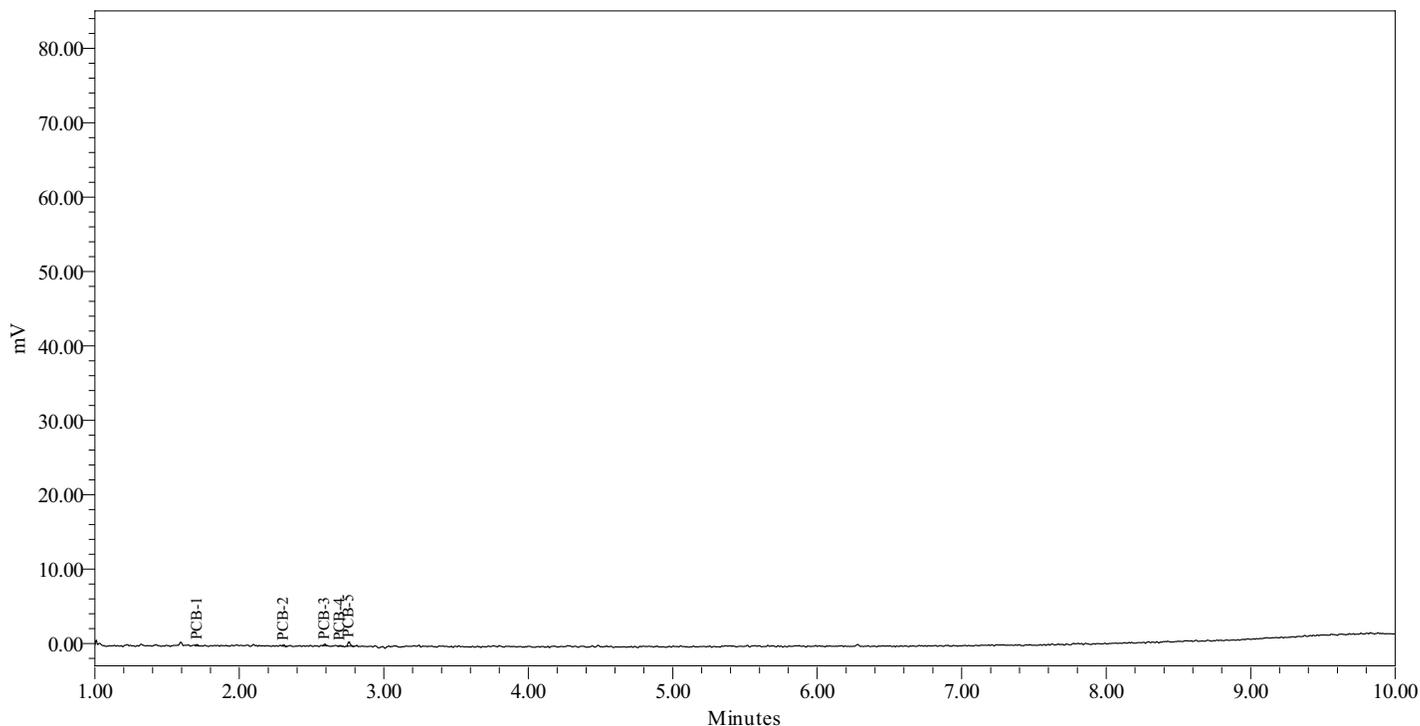
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:07:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:02 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-8 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.708          | bb               | 123           |
| 2 PCB-2   | 2.306          | bb               | 202           |
| 3 PCB-3   | 2.590          | bb               | 162           |
| 4 PCB-4   | 2.694          | bb               | 67            |
| 5 PCB-5   | 2.758          | bb               | 648           |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 1203                | 5.000                |
| 2 A1221-2   | 1001                | 5.000                |
| 3 A1221-5   | 555                 | 5.000                |
| 4 A1232     | 648                 |                      |
| 5 A1232-8/9 | 648                 |                      |



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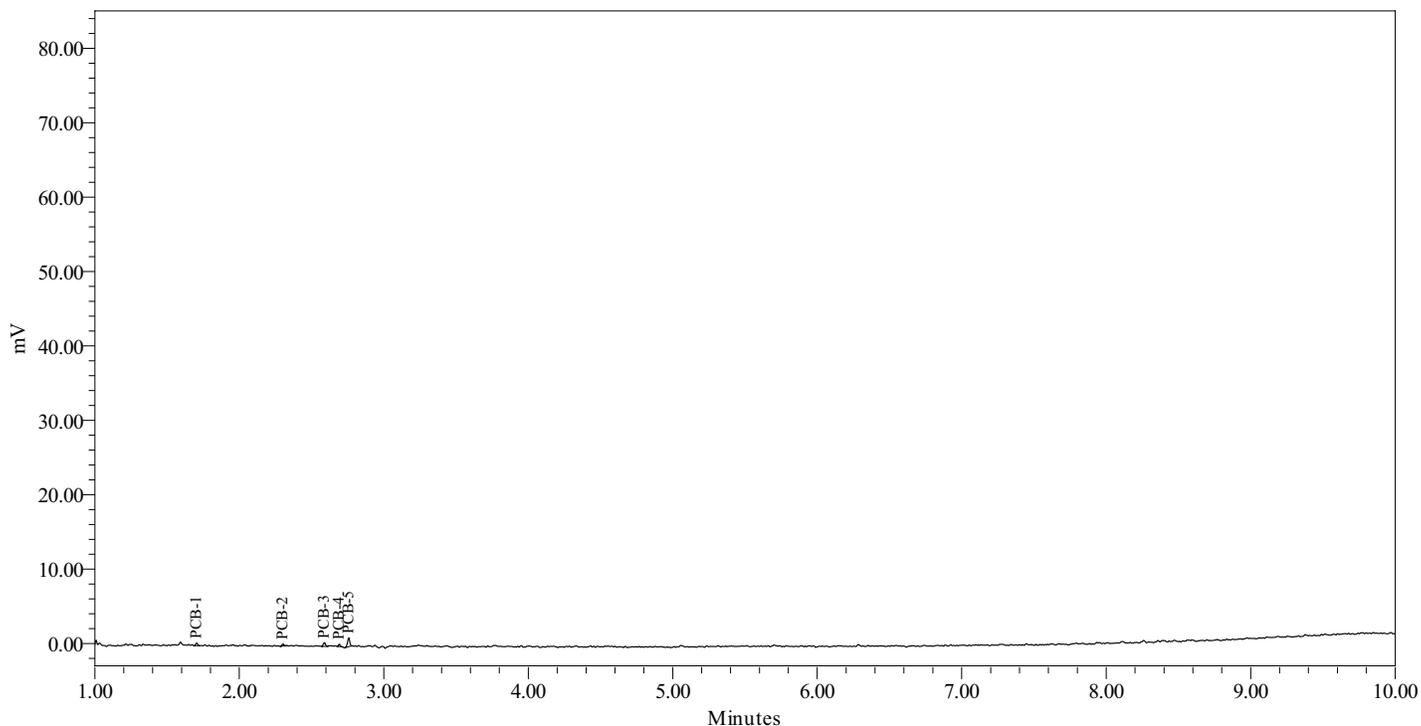
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:20:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:53:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:22 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-9 [m]         |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 323           |
| 2 PCB-2   | 2.301          | bb               | 272           |
| 3 PCB-3   | 2.588          | bb               | 517           |
| 4 PCB-4   | 2.691          | bb               | 256           |
| 5 PCB-5   | 2.757          | bb               | 1247          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 2615                | 10.000               |
| 2 A1221-2   | 2343                | 10.000               |
| 3 A1221-5   | 1368                | 10.000               |
| 4 A1232     | 1247                |                      |
| 5 A1232-8/9 | 1247                |                      |



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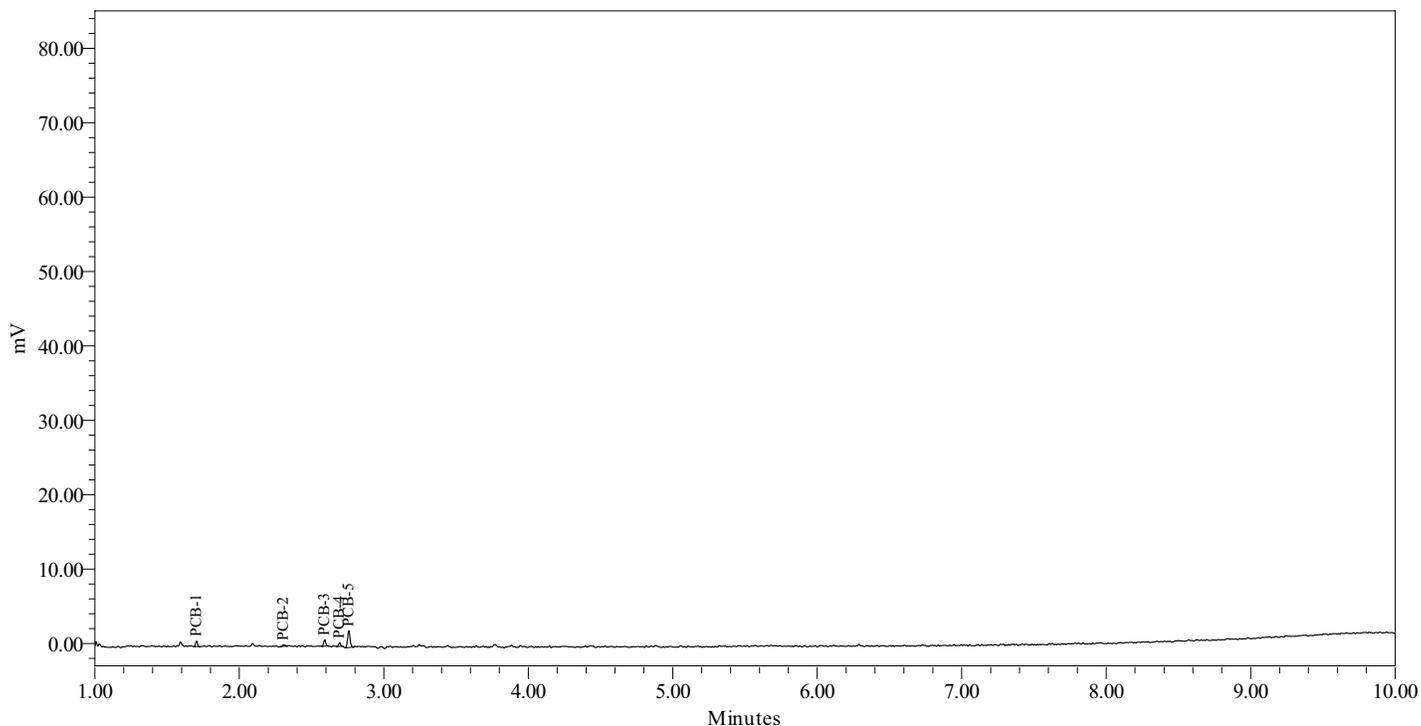
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:34:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:24 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:36 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-10 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.704          | bb               | 668           |
| 2 PCB-2   | 2.305          | bb               | 274           |
| 3 PCB-3   | 2.591          | bb               | 845           |
| 4 PCB-4   | 2.694          | bb               | 423           |
| 5 PCB-5   | 2.758          | bb               | 2674          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 4883                | 20.000               |
| 2 A1221-2   | 4609                | 20.000               |
| 3 A1221-5   | 2209                | 20.000               |
| 4 A1232     | 2674                |                      |
| 5 A1232-8/9 | 2674                |                      |



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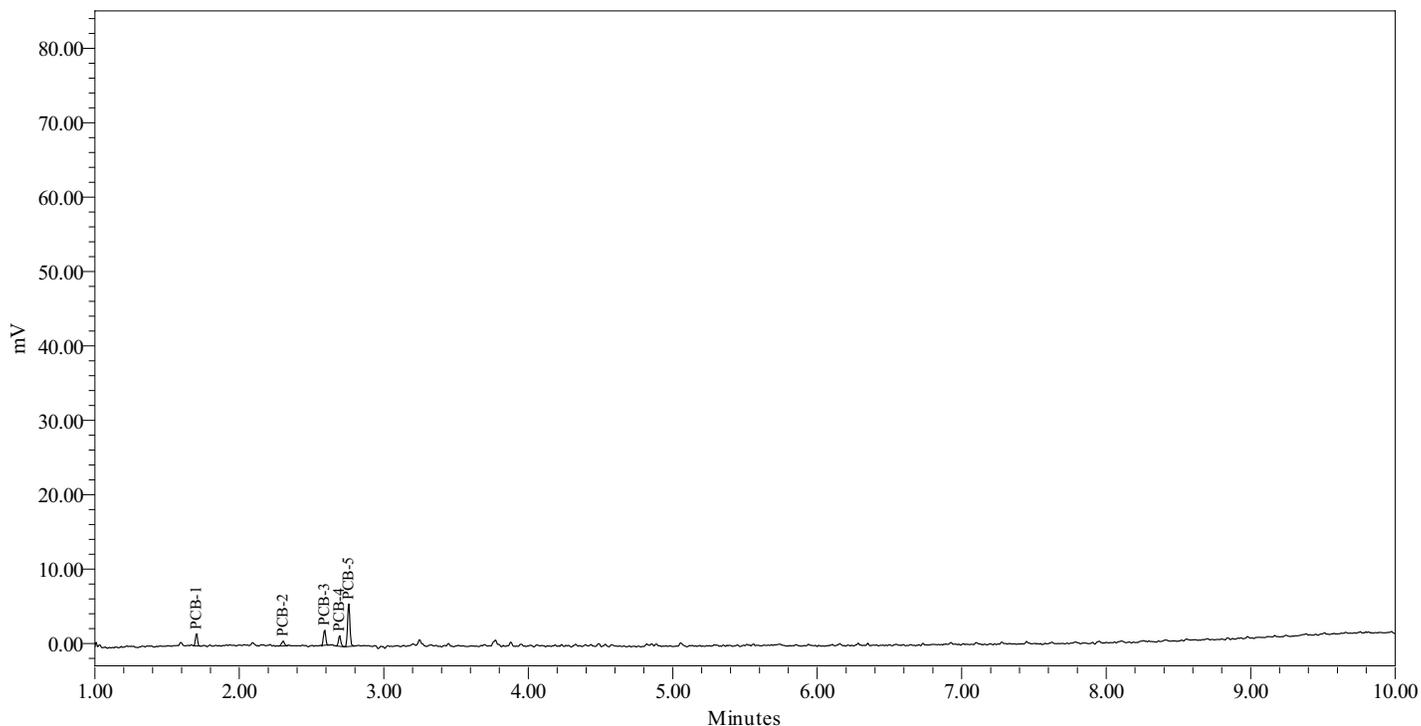
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 3:48:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:54:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:39:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.703          | bb               | 1611          |
| 2 PCB-2   | 2.303          | bb               | 865           |
| 3 PCB-3   | 2.590          | bb               | 2249          |
| 4 PCB-4   | 2.694          | bB               | 1587          |
| 5 PCB-5   | 2.757          | Bb               | 6508          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 12821               | 50.000               |
| 2 A1221-2   | 11955               | 50.000               |
| 3 A1221-5   | 6313                | 50.000               |
| 4 A1232     | 6508                |                      |
| 5 A1232-8/9 | 6508                |                      |



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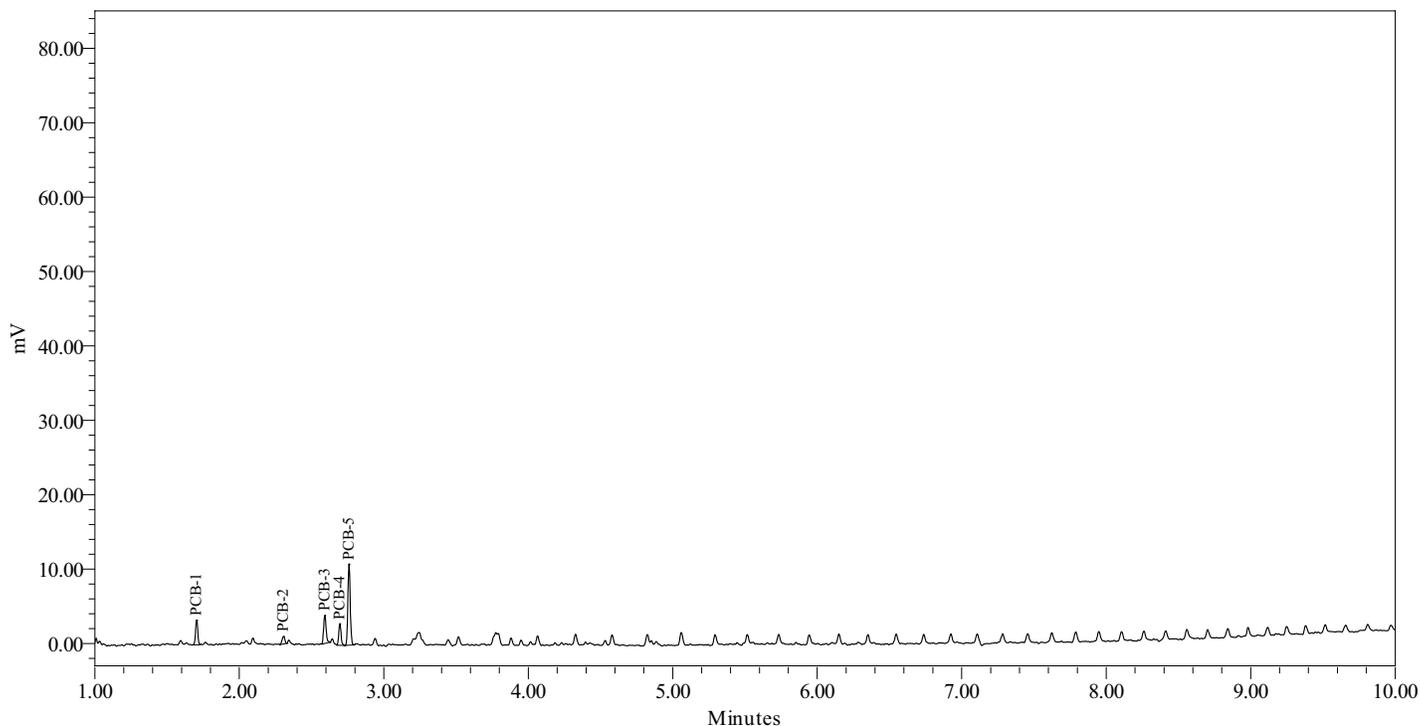
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031221E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1221 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:02:27 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:55:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-12 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-1   | 1.705          | bb               | 3557          |
| 2 PCB-2   | 2.306          | bb               | 1337          |
| 3 PCB-3   | 2.592          | bb               | 4569          |
| 4 PCB-4   | 2.696          | bB               | 3171          |
| 5 PCB-5   | 2.759          | Bb               | 12321         |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1221     | 24955               | 100.000              |
| 2 A1221-2   | 23618               | 100.000              |
| 3 A1221-5   | 12634               | 100.000              |
| 4 A1232     | 12321               |                      |
| 5 A1232-8/9 | 12321               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1232   | A 1232-8/9 |
|-----------|-------------|----------|------------|
| 1         | 031232A     | 425.8569 | 210.0169   |
| 2         | 031232B     | 430.2110 | 218.5084   |
| 3         | 031232C     | 461.3387 | 219.9561   |
| 4         | 031232D     | 429.2152 | 203.0680   |
| 5         | 031232E     | 435.9753 | 203.8464   |
| Mean      |             | 436.519  | 211.079    |
| Std. Dev. |             | 14.345   | 7.931      |
| % RSD     |             | 3.29     | 3.76       |

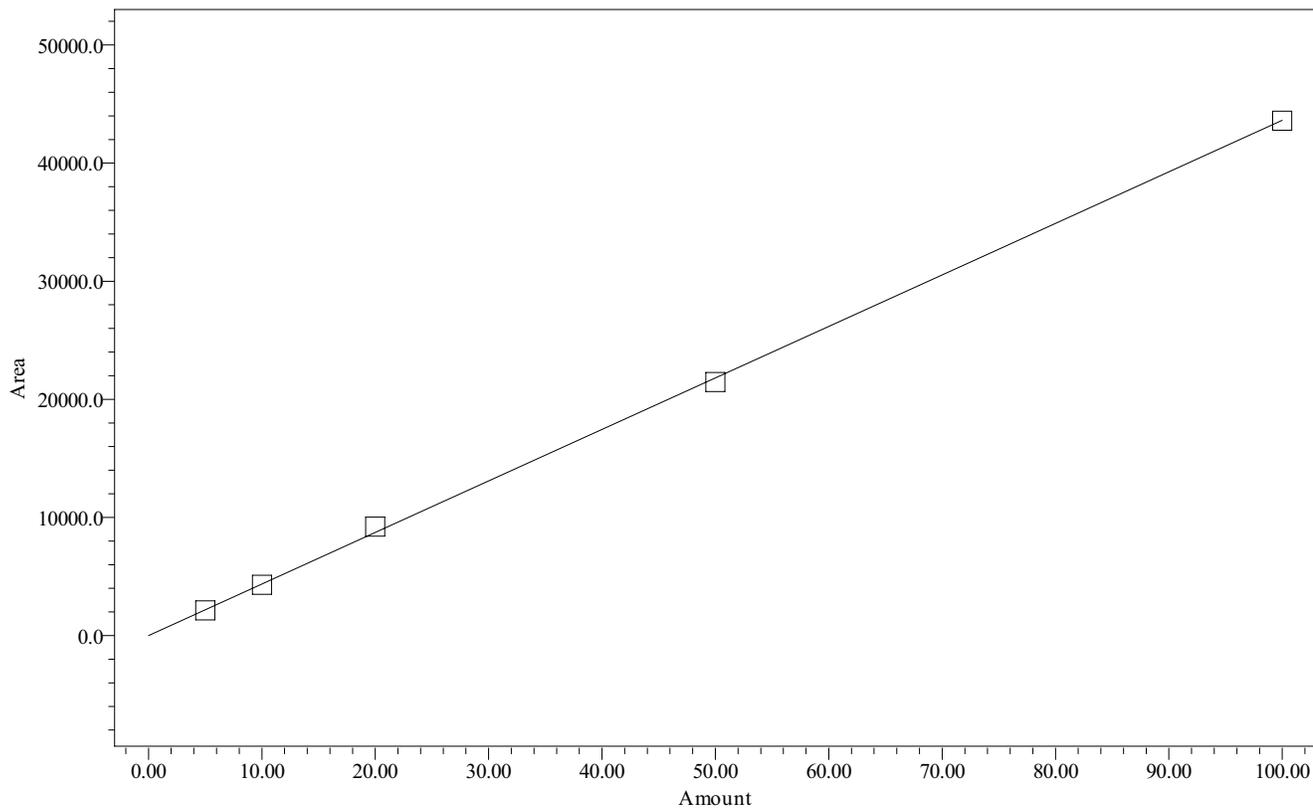
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1232                    | Coefficient constant A:                       | 4.374557   |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 436.186966 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999648   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999296   |

Calibration Curve



Point Table  
Peak: A1232

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232 | 5.00       | 2129     | 4.9         | -2.569      | No     | No     |
| 2 | A 1232 | 10.00      | 4302     | 9.9         | -1.470      | No     | No     |
| 3 | A 1232 | 20.00      | 9227     | 21.1        | 5.716       | No     | No     |
| 4 | A 1232 | 50.00      | 21461    | 49.2        | -1.618      | No     | No     |
| 5 | A 1232 | 100.00     | 43598    | 99.9        | -0.059      | No     | No     |

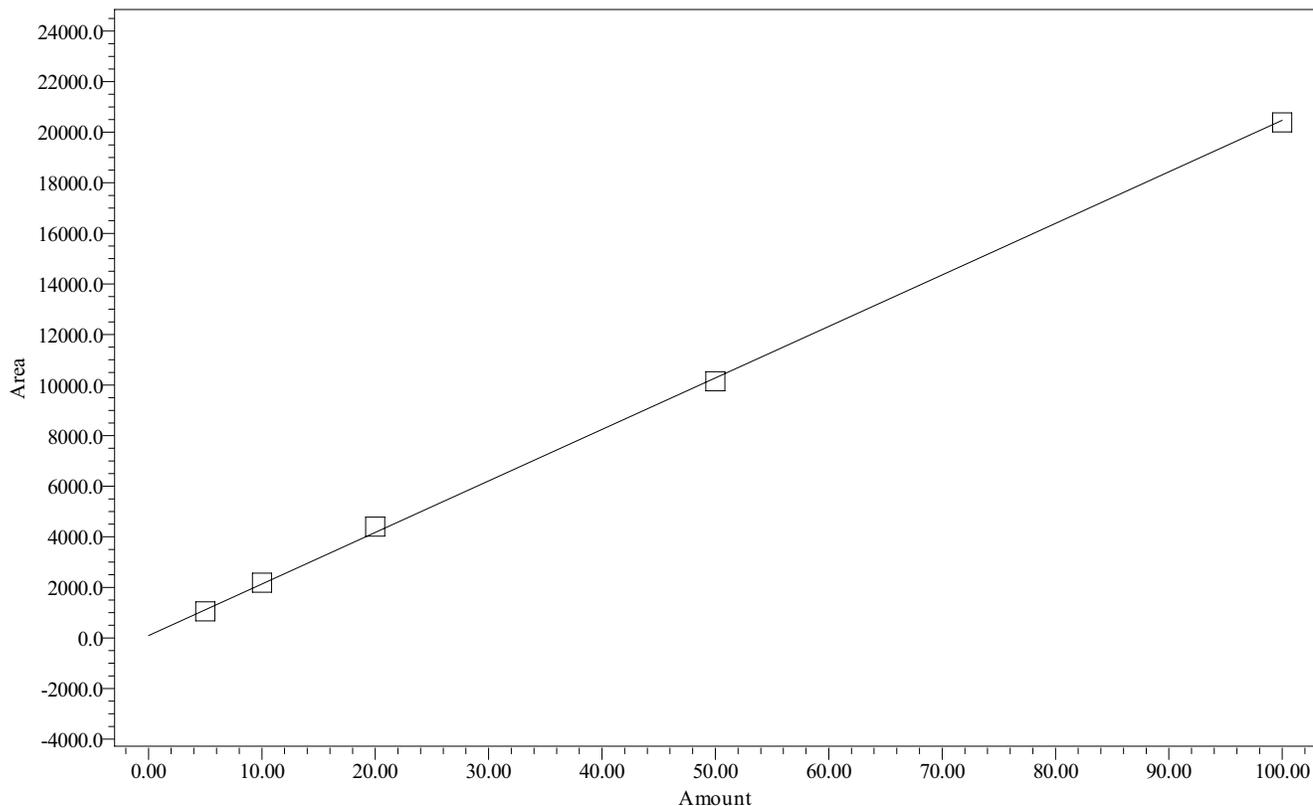
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1232-8/9                | Coefficient constant A:           | 96.834008  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 203.719773 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999584   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999168   |

Calibration Curve



Point Table  
Peak: A1232-8/9

|   | Name       | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1232-8/9 | 5.00       | 1050     | 4.7         | -6.416      | No     | No     |
| 2 | A 1232-8/9 | 10.00      | 2185     | 10.3        | 2.506       | No     | No     |
| 3 | A 1232-8/9 | 20.00      | 4399     | 21.1        | 5.593       | No     | No     |
| 4 | A 1232-8/9 | 50.00      | 10153    | 49.4        | -1.271      | No     | No     |
| 5 | A 1232-8/9 | 100.00     | 20385    | 99.6        | -0.413      | No     | No     |

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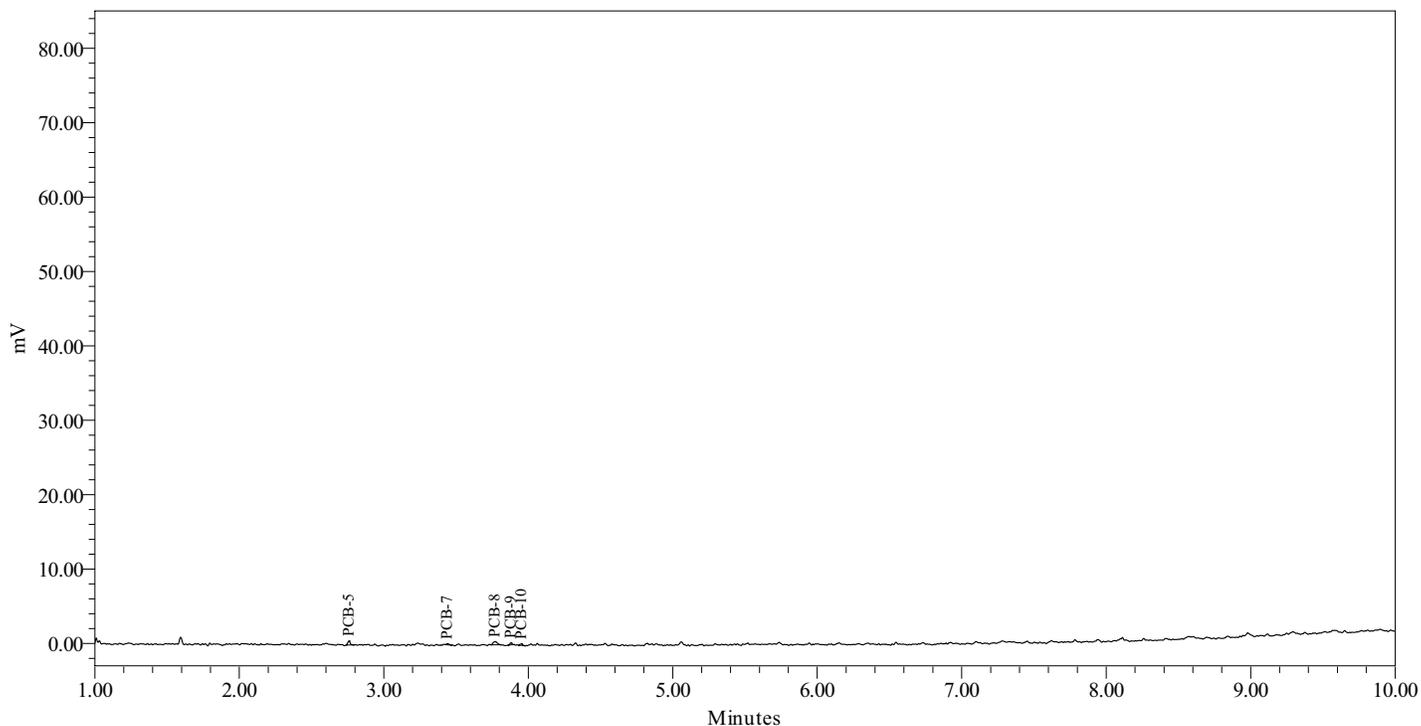
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:16:15 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:01:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-13 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.759          | bb               | 646           |
| 2 | PCB-7     | 3.440          | bb               | 202           |
| 3 | PCB-8     | 3.771          | bb               | 815           |
| 4 | PCB-9     | 3.880          | bb               | 264           |
| 5 | PCB-10    | 3.954          | bb               | 202           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 1483                |                      |
| 2 | A1221      | 646                 |                      |
| 3 | A1221-2    | 646                 |                      |
| 4 | A1232      | 2129                | 5.000                |
| 5 | A1232-8/9  | 1050                | 5.000                |
| 6 | A1242      | 1483                |                      |



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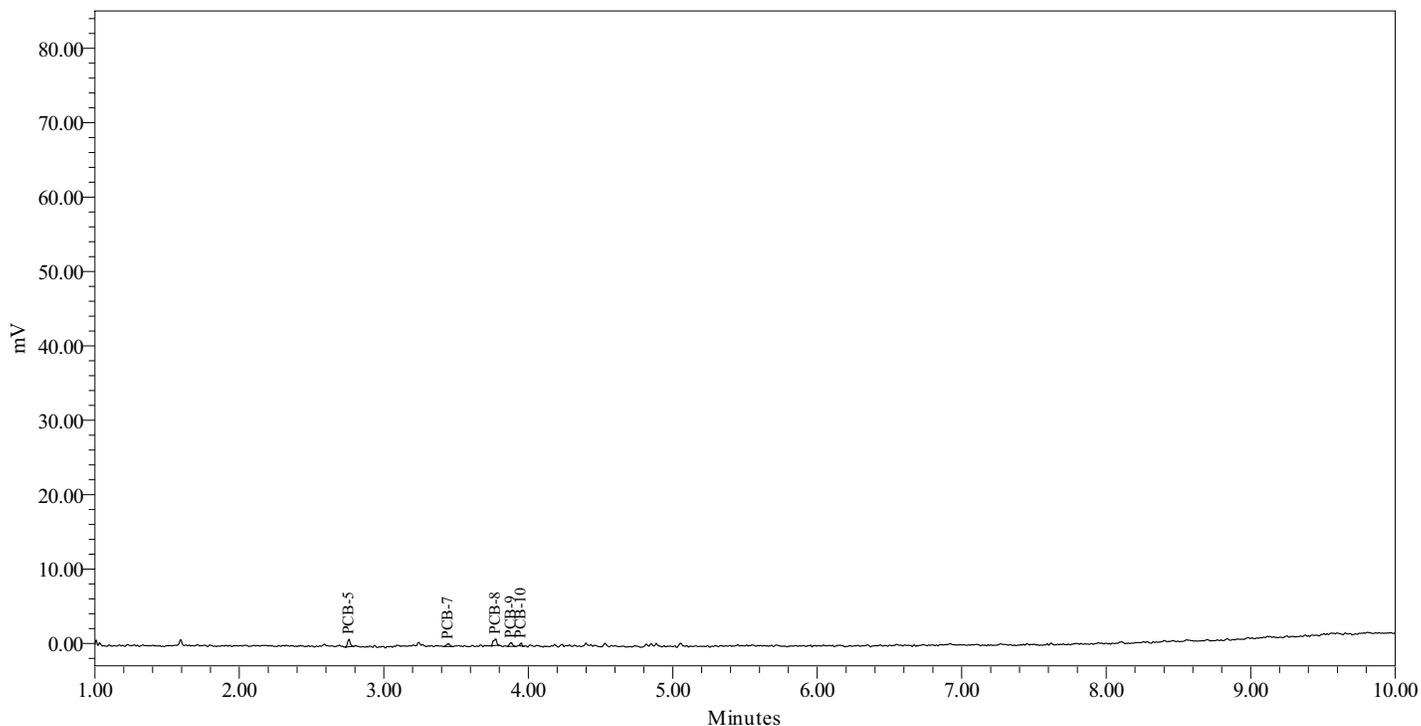
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:30:03 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:40:49 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-14 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 1257          |
| 2 | PCB-7     | 3.445          | bb               | 604           |
| 3 | PCB-8     | 3.772          | bb               | 1442          |
| 4 | PCB-9     | 3.881          | bb               | 675           |
| 5 | PCB-10    | 3.950          | bb               | 323           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3045                |                      |
| 2 | A1221      | 1257                |                      |
| 3 | A1221-2    | 1257                |                      |
| 4 | A1232      | 4302                | 10.000               |
| 5 | A1232-8/9  | 2185                | 10.000               |
| 6 | A1242      | 3045                |                      |



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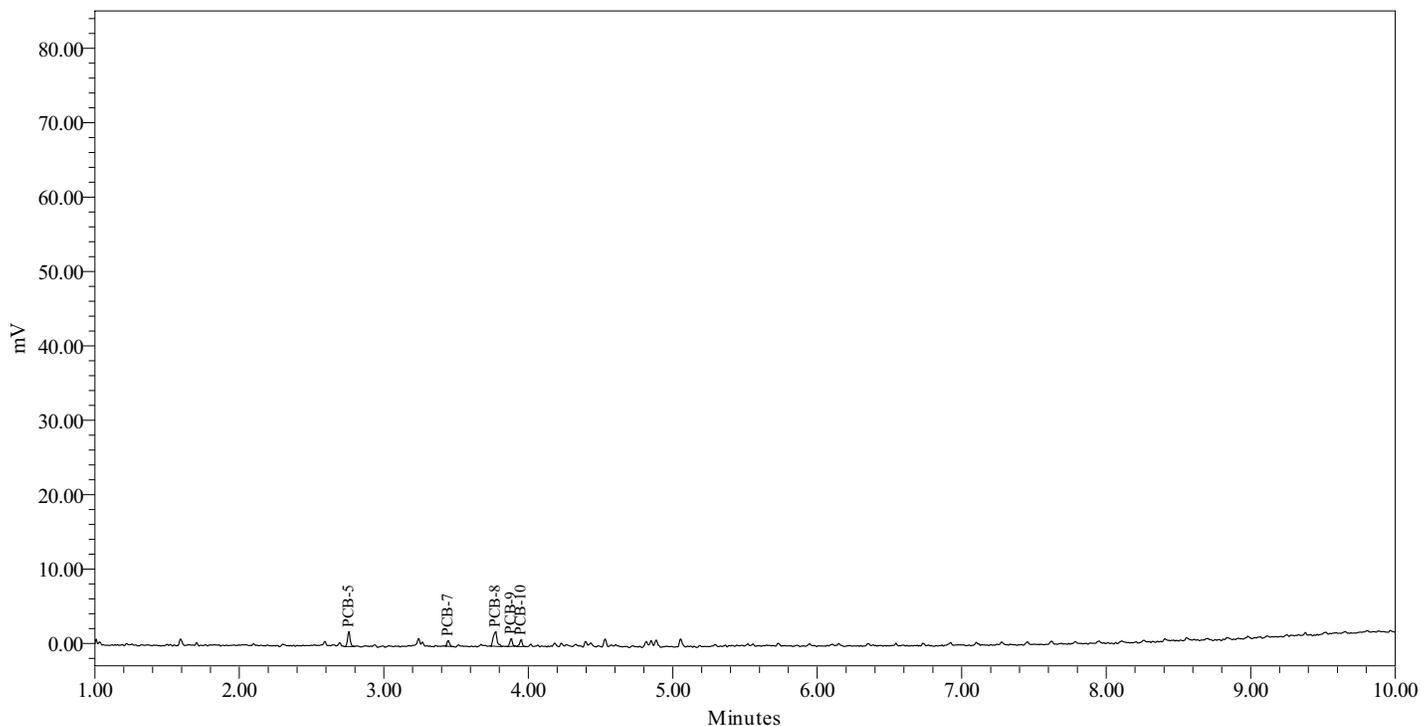
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:43:54 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:58:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:07 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 2453          |
| 2 | PCB-7     | 3.445          | bb               | 878           |
| 3 | PCB-8     | 3.772          | bb               | 3619          |
| 4 | PCB-9     | 3.881          | bb               | 1208          |
| 5 | PCB-10    | 3.950          | bb               | 1068          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6774                |                      |
| 2 | A1221      | 2453                |                      |
| 3 | A1221-2    | 2453                |                      |
| 4 | A1232      | 9227                | 20.000               |
| 5 | A1232-8/9  | 4399                | 20.000               |
| 6 | A1242      | 6774                |                      |



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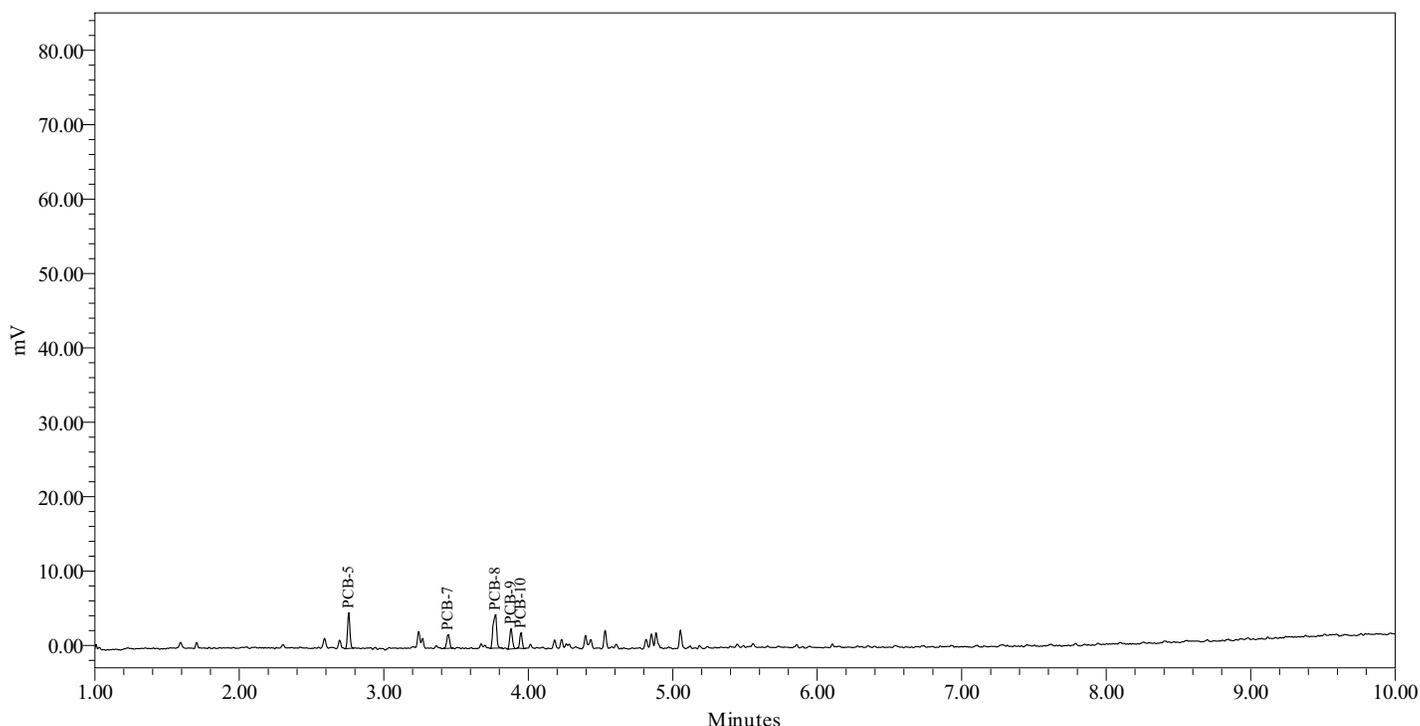
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 4:57:42 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:21 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-16 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.757          | bb               | 5339          |
| 2 | PCB-7     | 3.445          | bb               | 2524          |
| 3 | PCB-8     | 3.772          | bb               | 7907          |
| 4 | PCB-9     | 3.880          | bb               | 3400          |
| 5 | PCB-10    | 3.949          | bb               | 2290          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 16121               |                      |
| 2 | A1221      | 5339                |                      |
| 3 | A1221-2    | 5339                |                      |
| 4 | A1232      | 21461               | 50.000               |
| 5 | A1232-8/9  | 10153               | 50.000               |
| 6 | A1242      | 16121               |                      |



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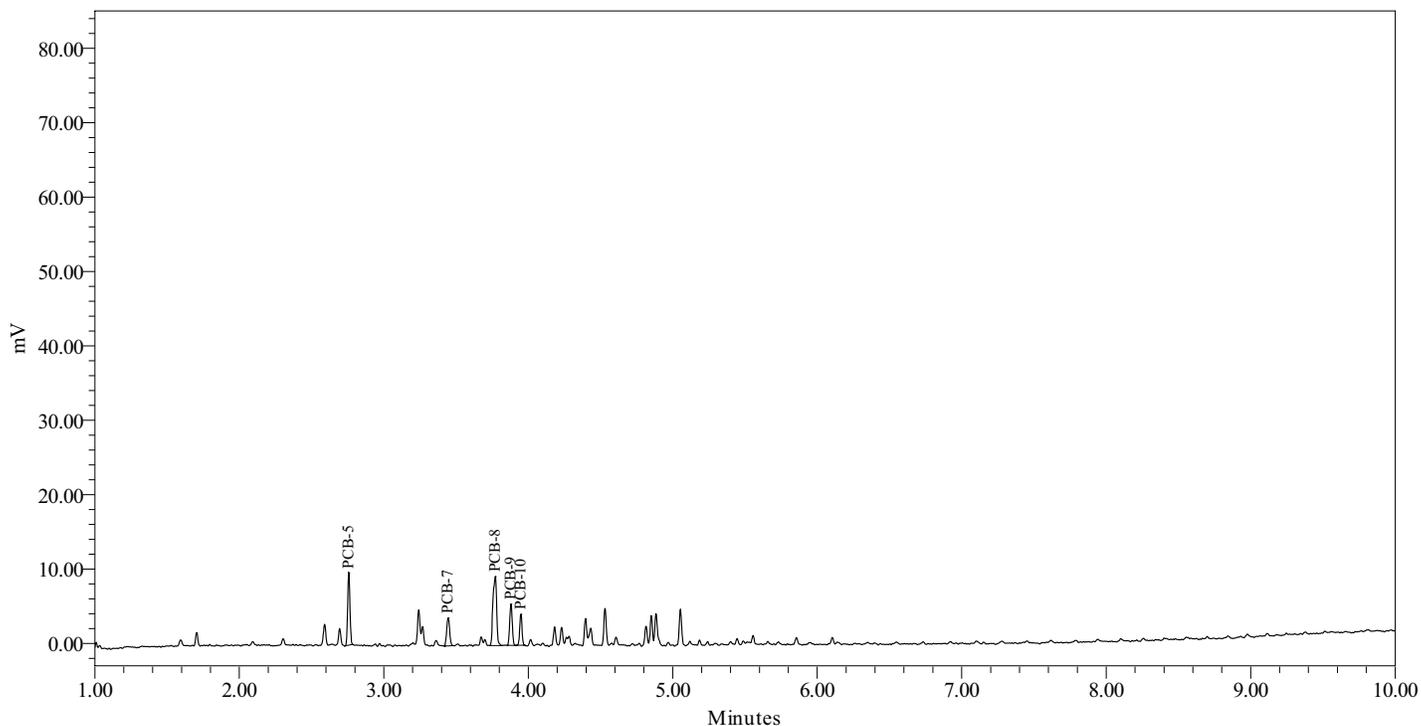
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031232E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1232 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:11:44 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:59:55 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:39 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-17 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-5     | 2.758          | bb               | 10600         |
| 2 | PCB-7     | 3.445          | bb               | 5318          |
| 3 | PCB-8     | 3.771          | bb               | 16564         |
| 4 | PCB-9     | 3.880          | bb               | 6649          |
| 5 | PCB-10    | 3.949          | bb               | 4466          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 32997               |                      |
| 2 | A1221      | 10600               |                      |
| 3 | A1221-2    | 10600               |                      |
| 4 | A1232      | 43598               | 100.000              |
| 5 | A1232-8/9  | 20385               | 100.000              |
| 6 | A1242      | 32997               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table  
Component Summary For RF

|           | Sample Name | A1242    |
|-----------|-------------|----------|
| 1         | 031242A     | 626.7051 |
| 2         | 031242B     | 687.5512 |
| 3         | 031242C     | 700.1744 |
| 4         | 031242D     | 671.1711 |
| 5         | 031242E     | 646.5434 |
| Mean      |             | 666.429  |
| Std. Dev. |             | 29.920   |
| % RSD     |             | 4.49     |

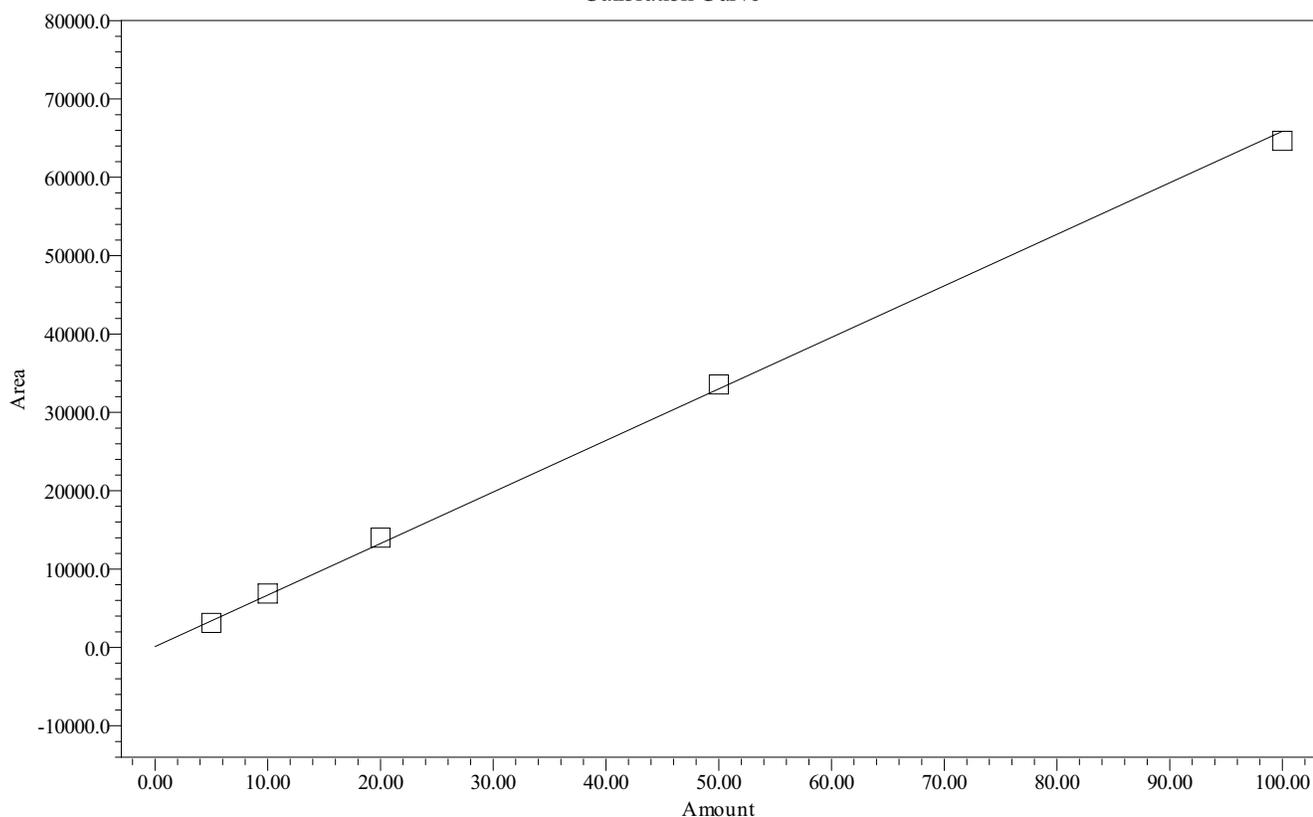
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1242                    | Coefficient constant A:                       | 117.434188 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 657.504040 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999357   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998715   |

Calibration Curve



Point Table  
Peak: A1242

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1242 | 5.00       | 3134     | 4.6         | -8.256      | No     | No     |
| 2 | A 1242 | 10.00      | 6876     | 10.3        | 2.784       | No     | No     |
| 3 | A 1242 | 20.00      | 14003    | 21.1        | 5.597       | No     | No     |
| 4 | A 1242 | 50.00      | 33559    | 50.9        | 1.721       | No     | No     |
| 5 | A 1242 | 100.00     | 64654    | 98.2        | -1.846      | No     | No     |

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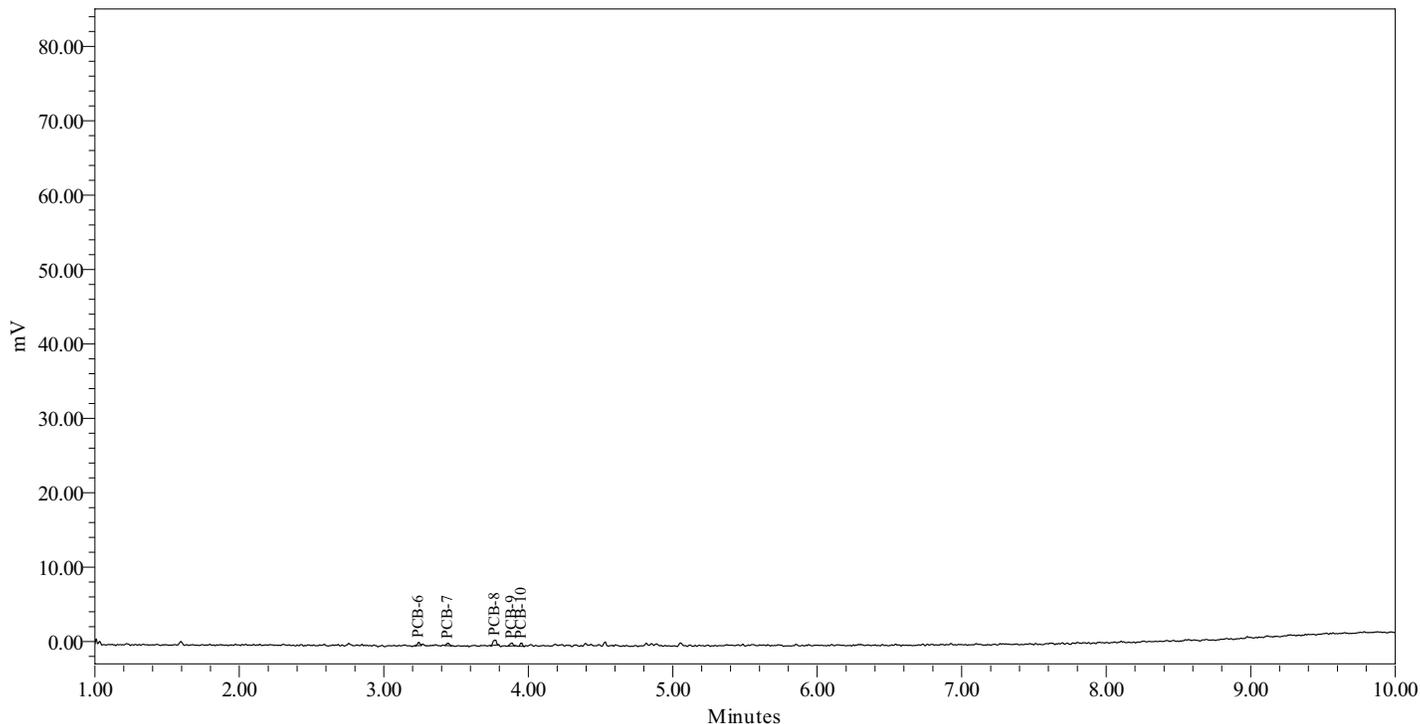
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:25:30 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:03:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:41:57 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-18 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.241          | bv               | 535           |
| 2 | PCB-7     | 3.443          | bb               | 451           |
| 3 | PCB-8     | 3.769          | bb               | 1129          |
| 4 | PCB-9     | 3.885          | bb               | 556           |
| 5 | PCB-10    | 3.951          | bb               | 462           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 3134                |                      |
| 2 | A1232      | 2598                |                      |
| 3 | A1232-8/9  | 913                 |                      |
| 4 | A1242      | 3134                | 5.000                |



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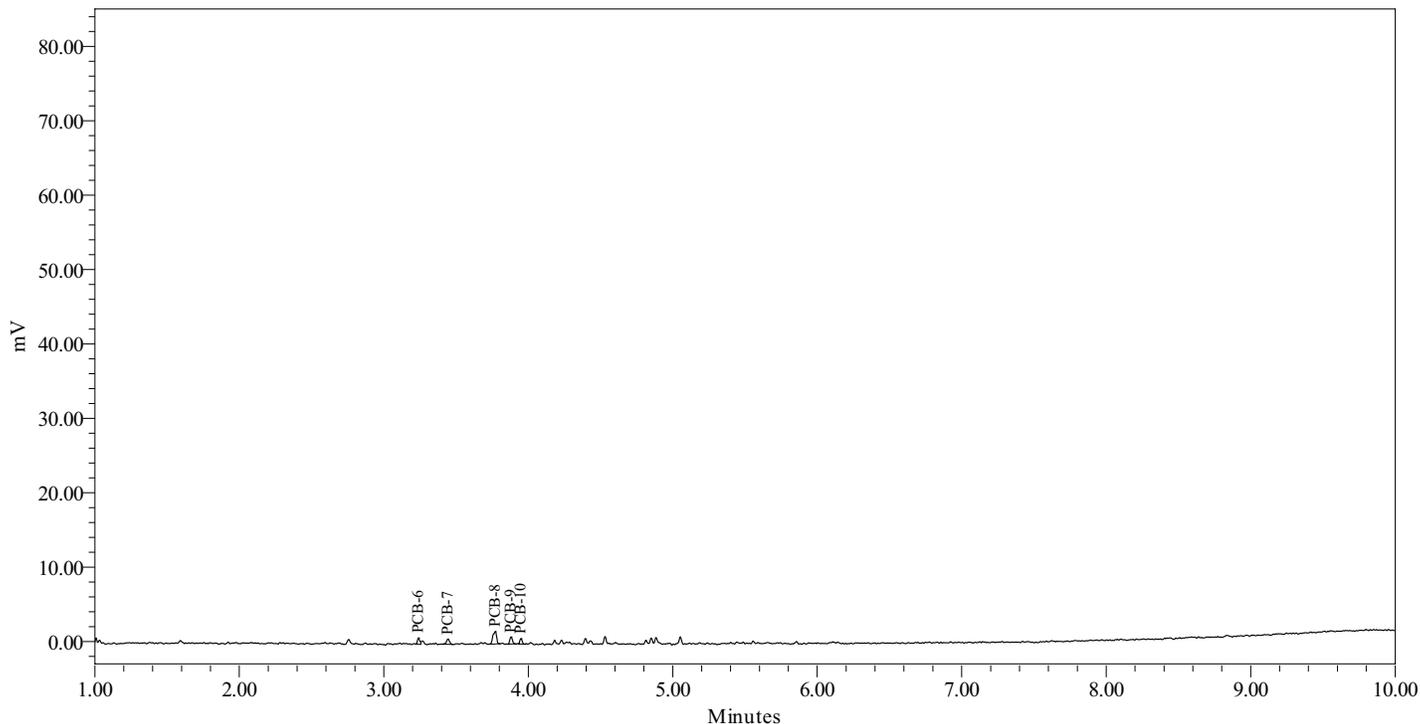
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:39:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:08 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:11 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-19 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.240          | bV               | 975           |
| 2 | PCB-7     | 3.444          | bb               | 1043          |
| 3 | PCB-8     | 3.772          | bb               | 2964          |
| 4 | PCB-9     | 3.881          | bb               | 1103          |
| 5 | PCB-10    | 3.950          | bb               | 791           |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 6876                |                      |
| 2 | A1232      | 5901                |                      |
| 3 | A1232-8/9  | 1834                |                      |
| 4 | A1242      | 6876                | 10.000               |



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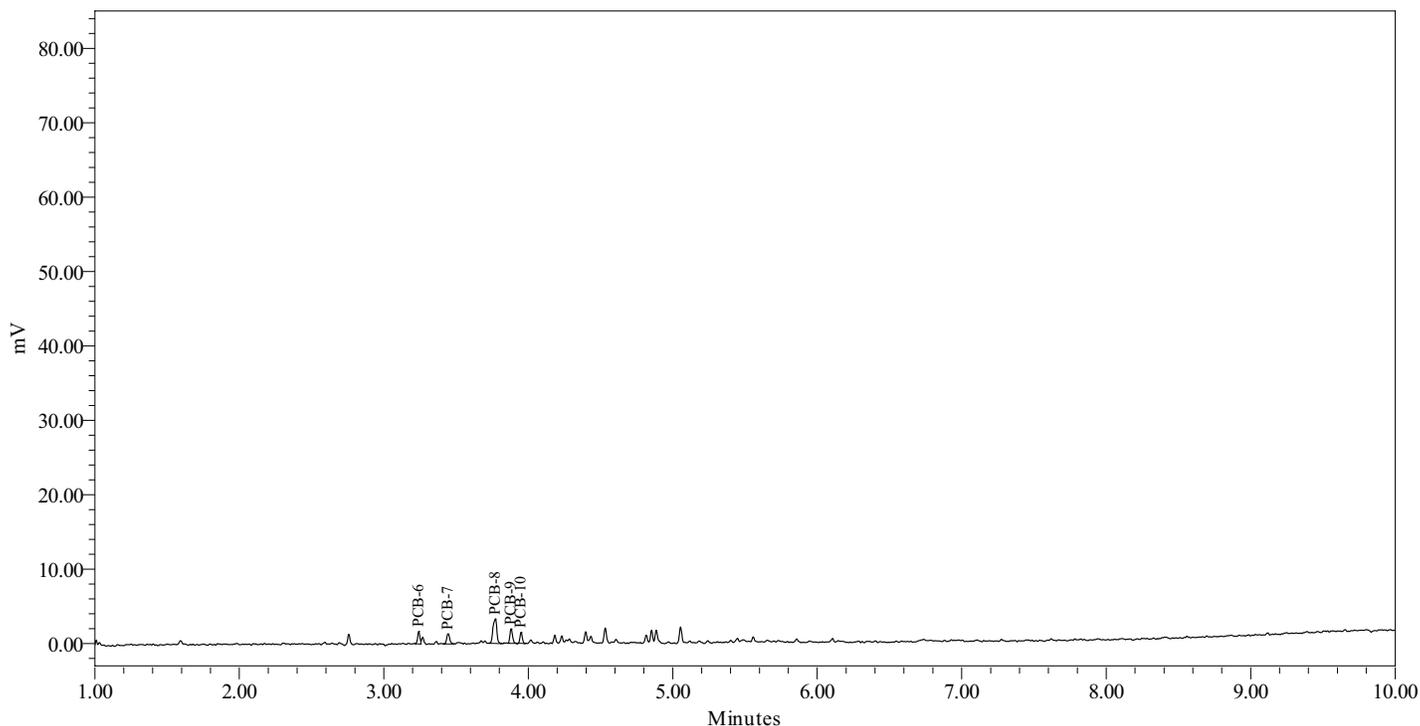
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 5:52:57 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:38 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:31 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-20 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-6     | 3.242          | bV               | 1847          |
| 2 | PCB-7     | 3.445          | bb               | 2009          |
| 3 | PCB-8     | 3.772          | bb               | 6097          |
| 4 | PCB-9     | 3.881          | bB               | 2407          |
| 5 | PCB-10    | 3.950          | Bb               | 1644          |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|------------|---------------------|----------------------|
| 1 | A1016      | 14003               |                      |
| 2 | A1232      | 12157               |                      |
| 3 | A1232-8/9  | 3653                |                      |
| 4 | A1242      | 14003               | 20.000               |



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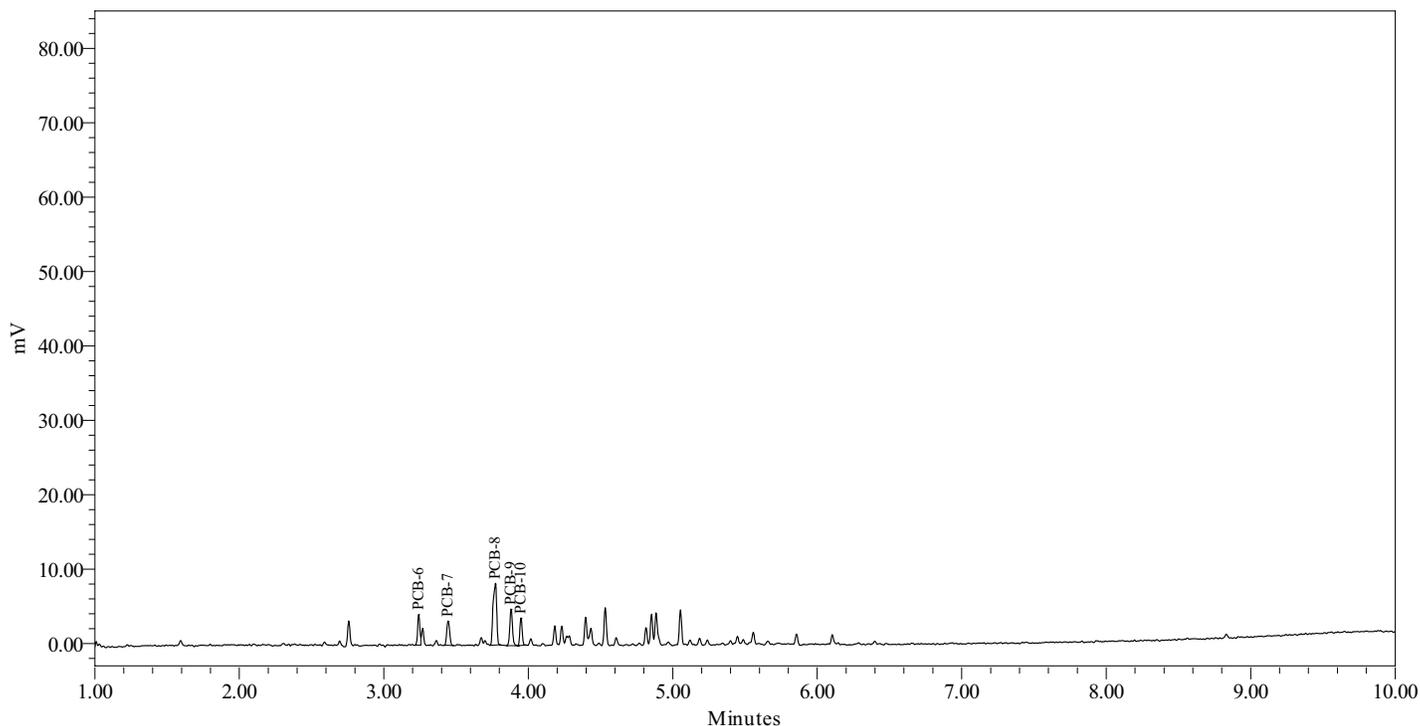
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:06:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:04:58 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:42:54 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-21 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 4482          |
| 2 PCB-7   | 3.445          | bb               | 4543          |
| 3 PCB-8   | 3.772          | bb               | 14379         |
| 4 PCB-9   | 3.881          | bB               | 6189          |
| 5 PCB-10  | 3.950          | Bb               | 3965          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 33559               |                      |
| 2 A1232     | 29076               |                      |
| 3 A1232-8/9 | 8508                |                      |
| 4 A1242     | 33559               | 50.000               |



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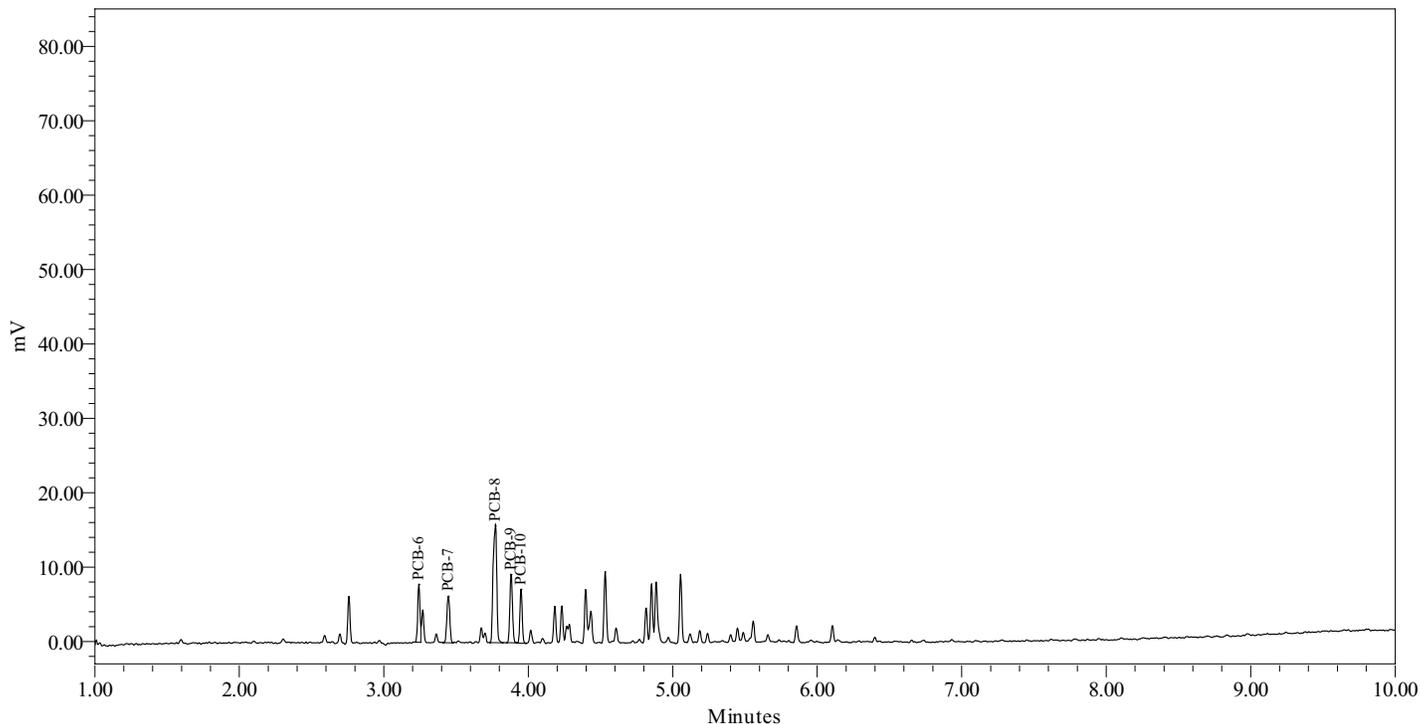
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031242E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1242 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:21:10 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:05:23 AM EDT |
| Sample Set Name:   | GC28F_LLCC 031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC 031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:12 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-22 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-6   | 3.242          | bV               | 8642          |
| 2 PCB-7   | 3.446          | bb               | 8926          |
| 3 PCB-8   | 3.772          | bb               | 27902         |
| 4 PCB-9   | 3.881          | bV               | 11326         |
| 5 PCB-10  | 3.950          | Vb               | 7857          |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|-------------|---------------------|----------------------|
| 1 A1016     | 64654               |                      |
| 2 A1232     | 56012               |                      |
| 3 A1232-8/9 | 16783               |                      |
| 4 A1242     | 64654               | 100.000              |



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|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1248-11/15 | A 1248-14/15 | A 1248   |
|-----------|-------------|--------------|--------------|----------|
| 1         | 031248A     | 475.1758     | 360.4375     | 797.2567 |
| 2         | 031248B     | 483.4936     | 384.1133     | 794.7805 |
| 3         | 031248C     | 496.9337     | 371.1287     | 774.1311 |
| 4         | 031248D     | 466.0032     | 349.3627     | 725.3930 |
| 5         | 031248E     | 485.0390     | 359.0106     | 749.4639 |
| Mean      |             | 481.329      | 364.811      | 768.205  |
| Std. Dev. |             | 11.562       | 13.266       | 30.698   |
| % RSD     |             | 2.40         | 3.64         | 4.00     |

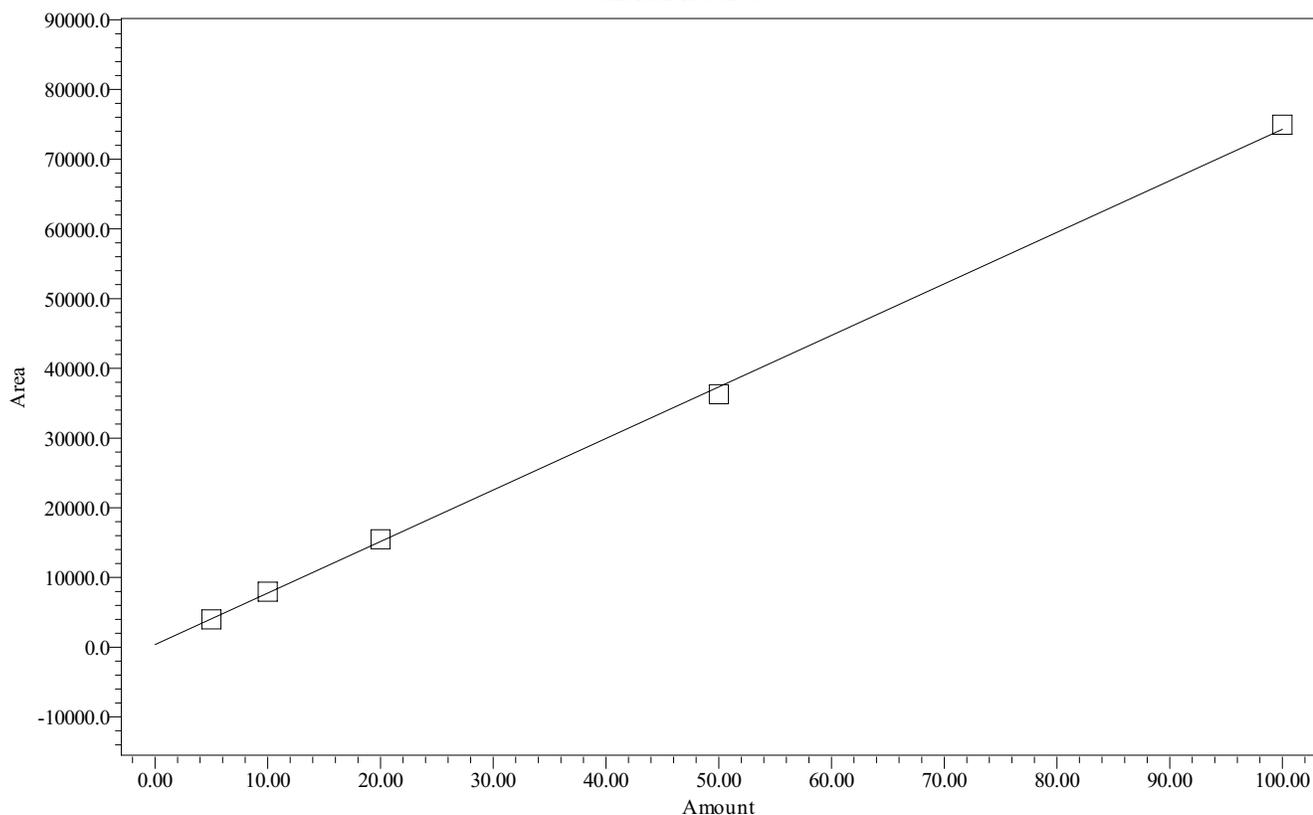
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|                    |                          |   |            |
|--------------------|--------------------------|---|------------|
| Name:              | A1248                    | Coefficient constant A:                       | 384.678077 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 738.969492 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999717   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999434   |

Calibration Curve



Point Table  
Peak: A1248

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248 | 5.00       | 3986     | 4.9         | -2.524      | No     | No     |
| 2 | A 1248 | 10.00      | 7948     | 10.2        | 2.347       | No     | No     |
| 3 | A 1248 | 20.00      | 15483    | 20.4        | 2.155       | No     | No     |
| 4 | A 1248 | 50.00      | 36270    | 48.6        | -2.878      | No     | No     |
| 5 | A 1248 | 100.00     | 74946    | 100.9       | 0.900       | No     | No     |

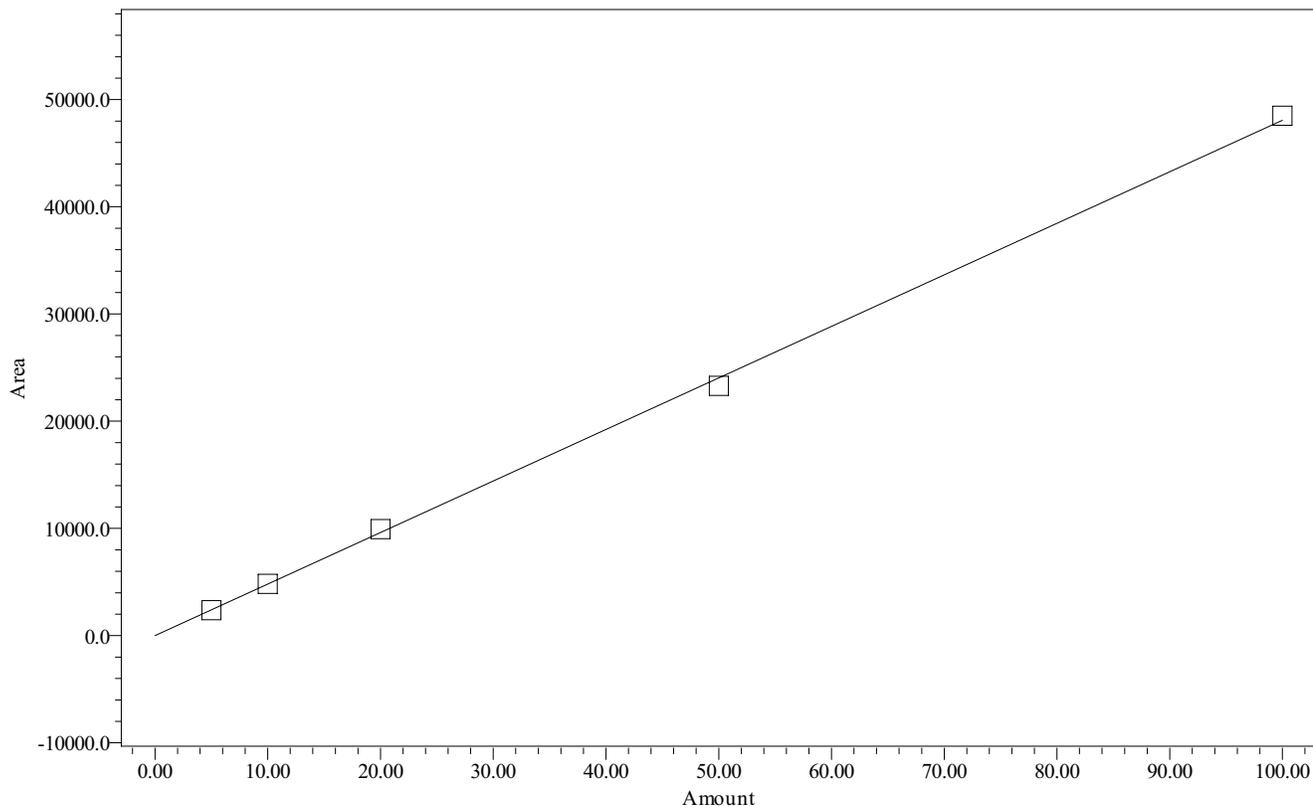
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-11/15              | Coefficient constant A:           | 10.190804  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 480.554565 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999670   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999341   |

Calibration Curve



Point Table  
Peak: A1248-11/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-11/15 | 5.00       | 2376     | 4.9         | -1.543      | No     | No     |
| 2 | A 1248-11/15 | 10.00      | 4835     | 10.0        | 0.400       | No     | No     |
| 3 | A 1248-11/15 | 20.00      | 9939     | 20.7        | 3.302       | No     | No     |
| 4 | A 1248-11/15 | 50.00      | 23300    | 48.5        | -3.070      | No     | No     |
| 5 | A 1248-11/15 | 100.00     | 48504    | 100.9       | 0.912       | No     | No     |

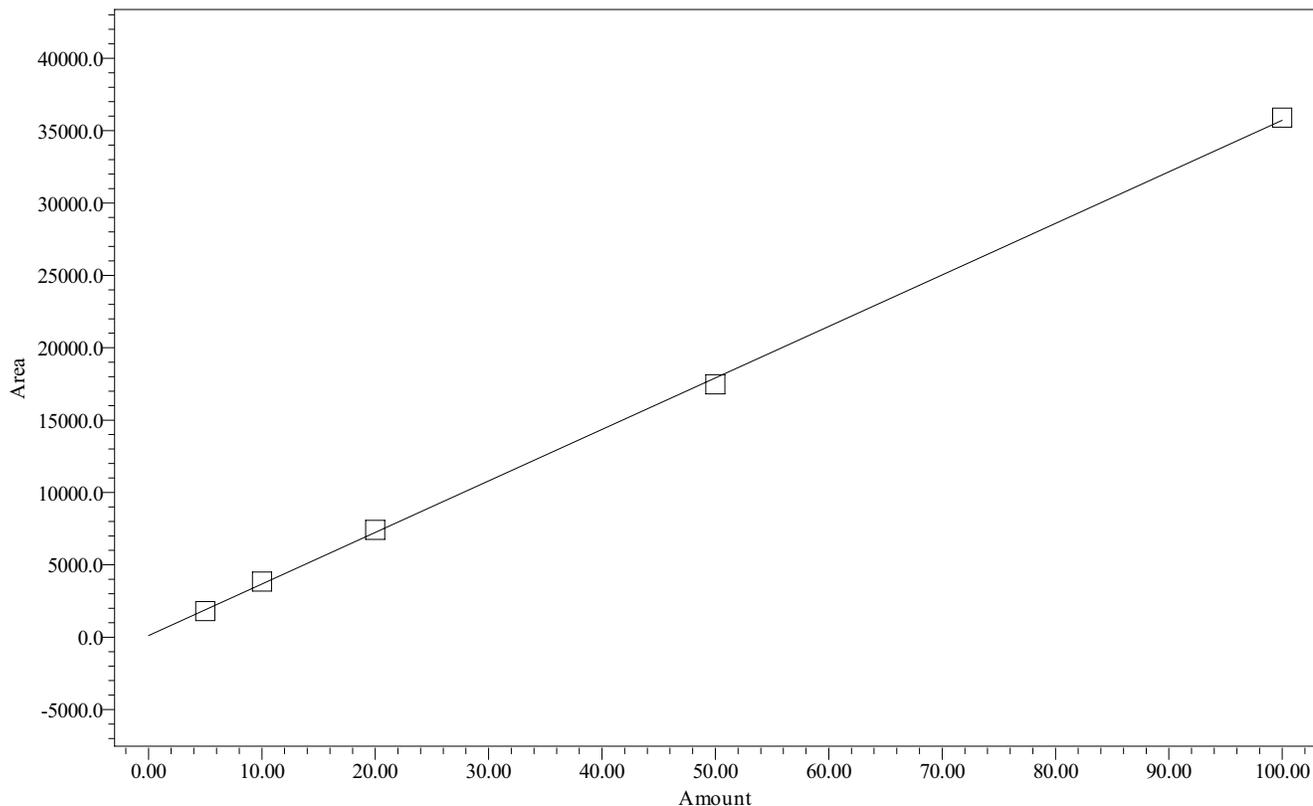
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1248-14/15              | Coefficient constant A:           | 116.431219 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 355.961793 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999650   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999300   |

Calibration Curve



Point Table  
Peak: A1248-14/15

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1248-14/15 | 5.00       | 1802     | 4.7         | -5.284      | No     | No     |
| 2 | A 1248-14/15 | 10.00      | 3841     | 10.5        | 4.638       | No     | No     |
| 3 | A 1248-14/15 | 20.00      | 7423     | 20.5        | 2.625       | No     | No     |
| 4 | A 1248-14/15 | 50.00      | 17468    | 48.7        | -2.508      | No     | No     |
| 5 | A 1248-14/15 | 100.00     | 35901    | 100.5       | 0.529       | No     | No     |

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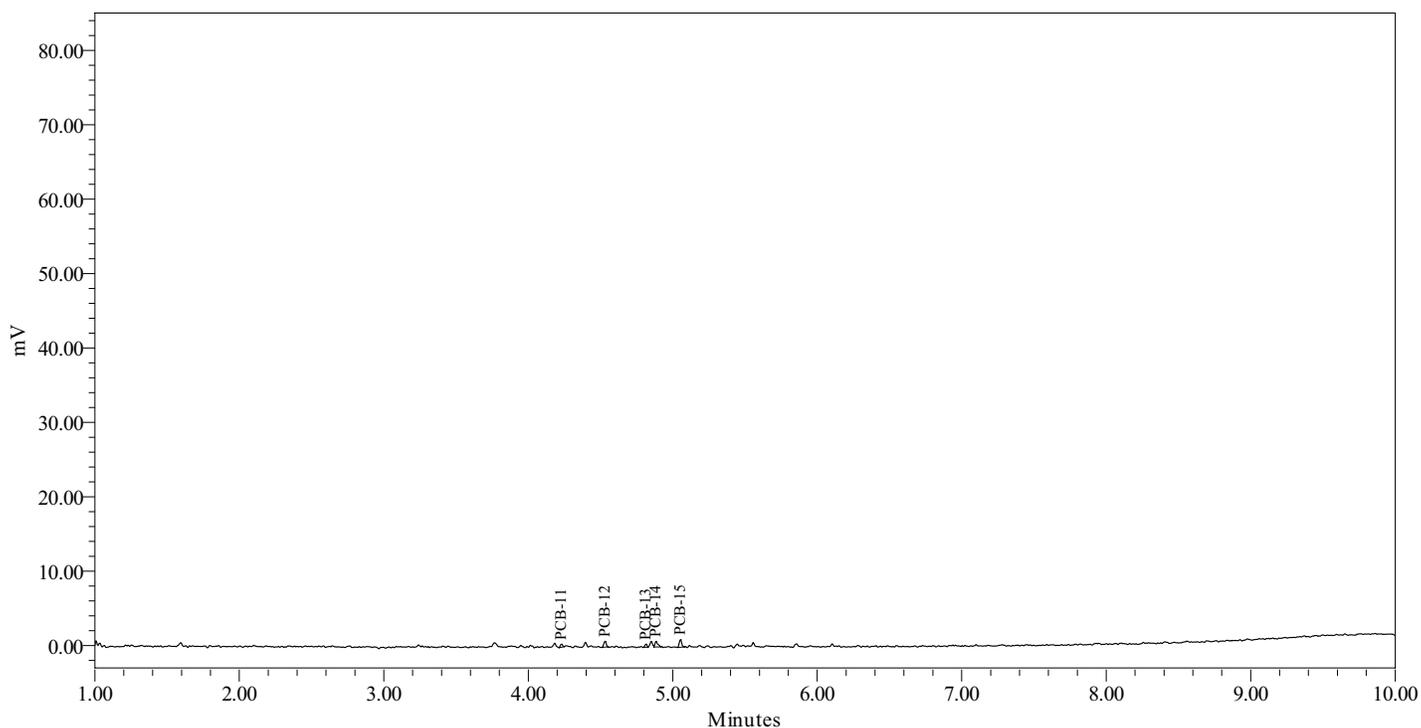
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:34:59 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:03 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:32 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-23 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.229          | bb               | 444           |
| 2 PCB-12  | 4.532          | bb               | 904           |
| 3 PCB-13  | 4.814          | bV               | 454           |
| 4 PCB-14  | 4.884          | Vb               | 1018          |
| 5 PCB-15  | 5.053          | bb               | 1166          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 3986                | 5.000                |
| 2 A1248-11/15 | 2376                | 5.000                |
| 3 A1248-14/15 | 1802                | 5.000                |



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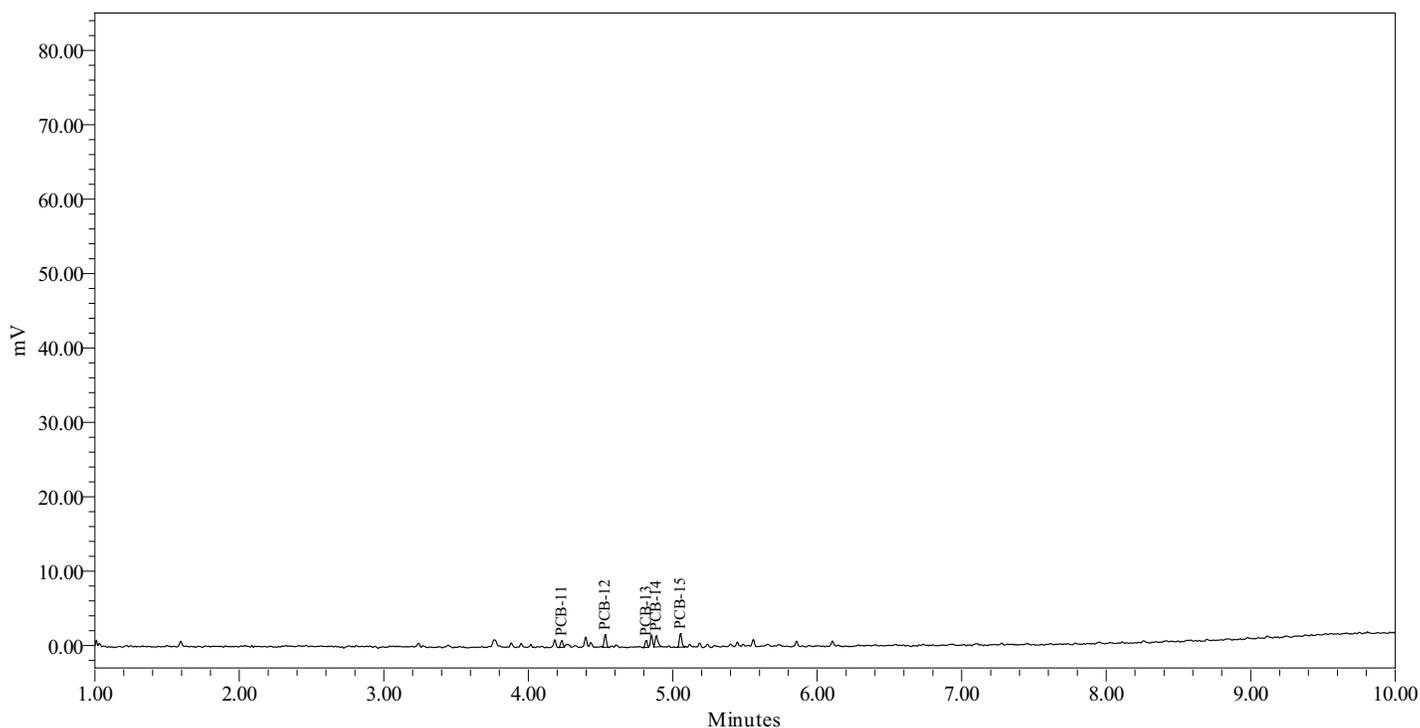
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 6:48:48 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:09:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:43:51 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-24 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bv               | 1011          |
| 2 PCB-12  | 4.533          | bb               | 1808          |
| 3 PCB-13  | 4.816          | bV               | 1021          |
| 4 PCB-14  | 4.886          | Vb               | 2005          |
| 5 PCB-15  | 5.054          | bb               | 2102          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 7948                | 10.000               |
| 2 A1248-11/15 | 4835                | 10.000               |
| 3 A1248-14/15 | 3841                | 10.000               |



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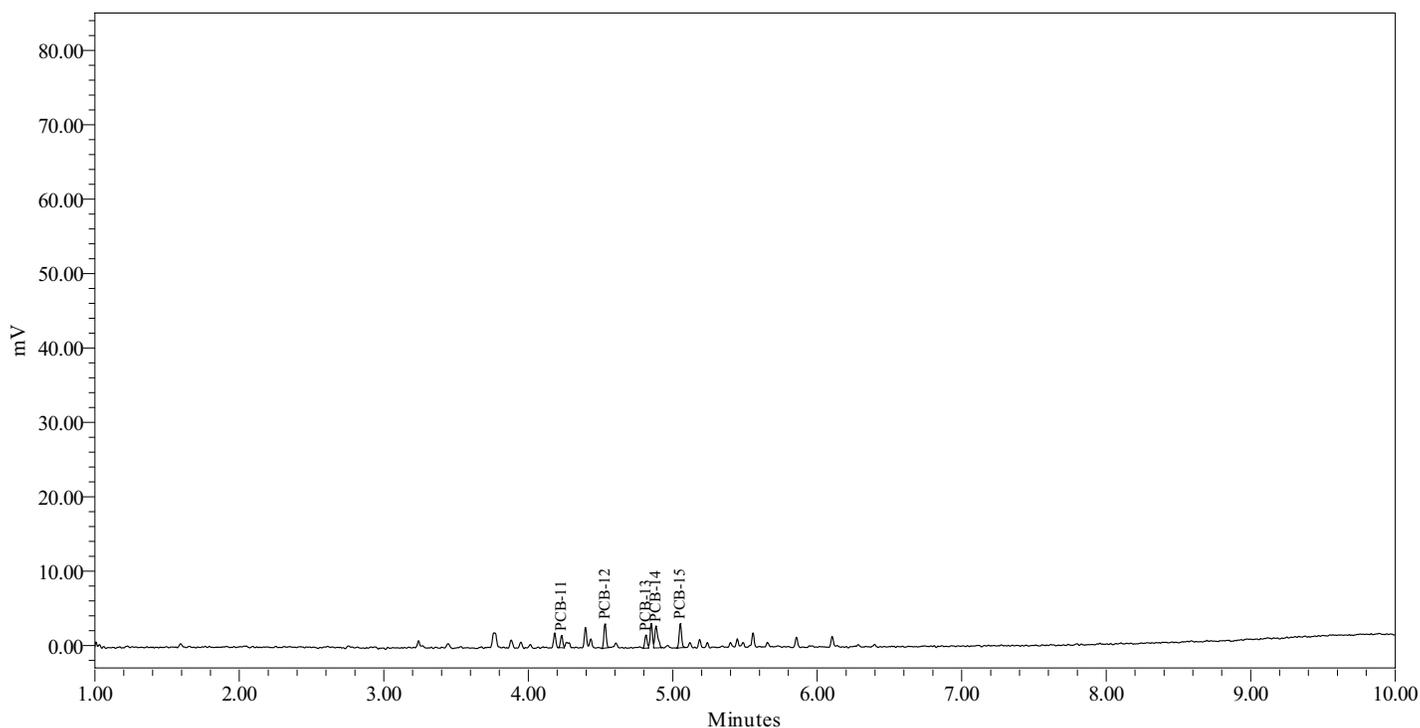
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:02:36 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:02 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:04 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-25 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.231          | bV               | 1835          |
| 2 PCB-12  | 4.531          | bb               | 3574          |
| 3 PCB-13  | 4.814          | bV               | 2013          |
| 4 PCB-14  | 4.884          | Vb               | 4351          |
| 5 PCB-15  | 5.053          | bb               | 3709          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 15483               | 20.000               |
| 2 A1248-11/15 | 9939                | 20.000               |
| 3 A1248-14/15 | 7423                | 20.000               |



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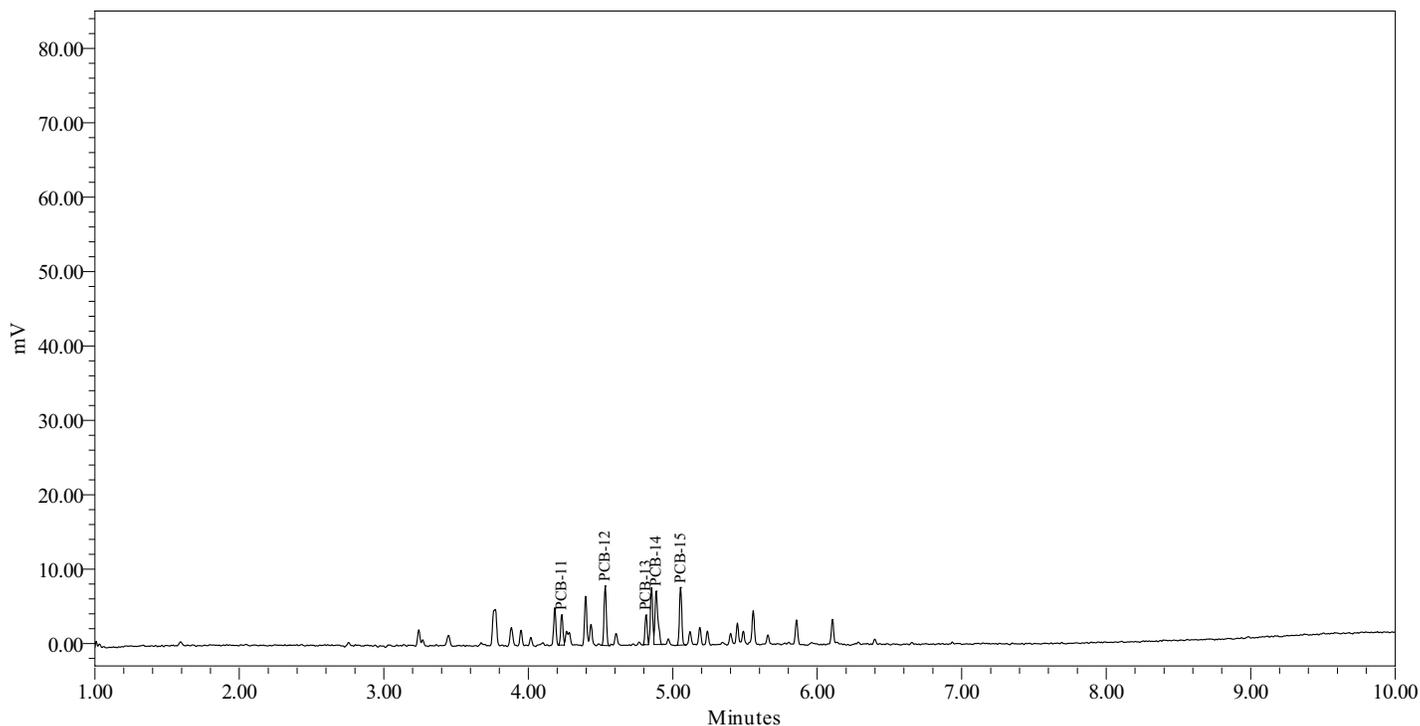
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:16:26 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:10:33 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-26 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-11  | 4.232          | bV               | 4395          |
| 2 PCB-12  | 4.533          | bb               | 8829          |
| 3 PCB-13  | 4.815          | bV               | 4243          |
| 4 PCB-14  | 4.885          | Vb               | 10227         |
| 5 PCB-15  | 5.054          | bb               | 8574          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1248       | 36270               | 50.000               |
| 2 A1248-11/15 | 23300               | 50.000               |
| 3 A1248-14/15 | 17468               | 50.000               |



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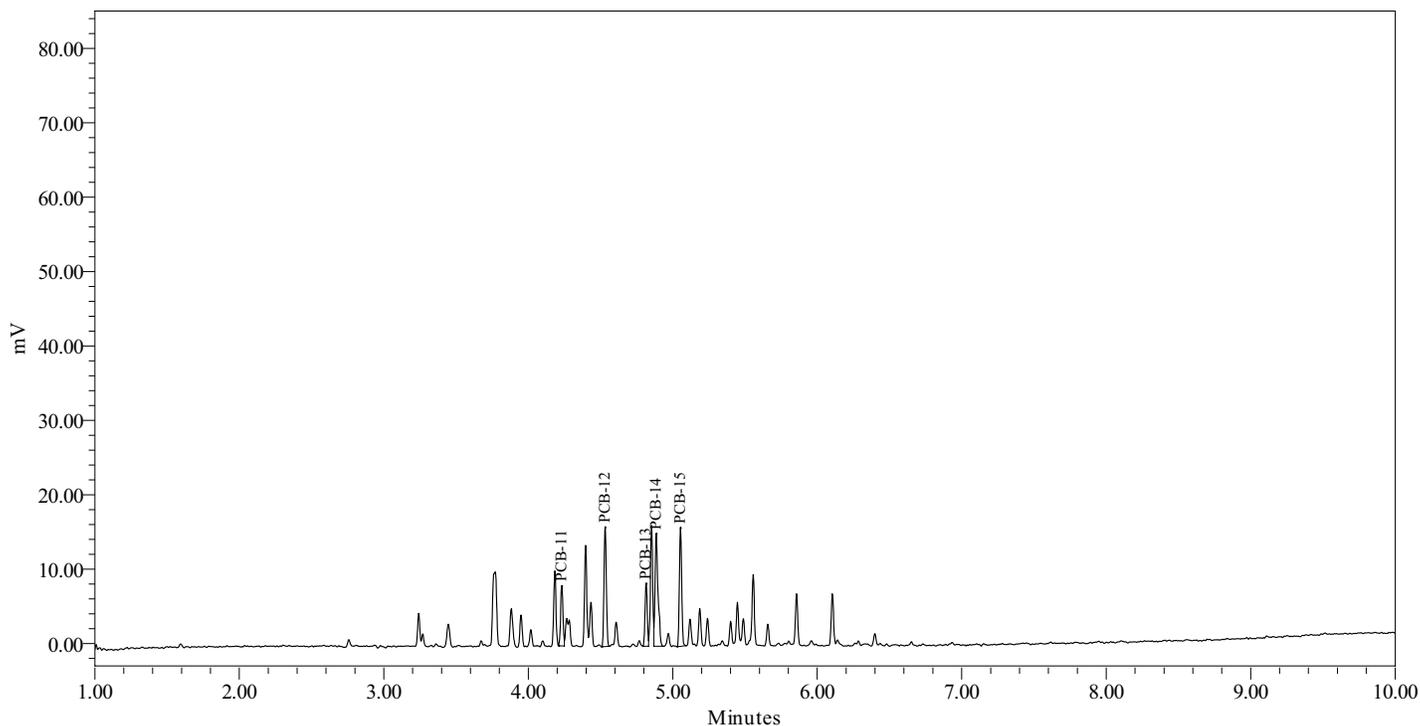
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031248E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1248 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:30:37 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:11:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:44:50 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-27 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-11    | 4.232          | bV               | 8932          |
| 2 | PCB-12    | 4.532          | bb               | 17877         |
| 3 | PCB-13    | 4.816          | bV               | 9092          |
| 4 | PCB-14    | 4.886          | Vb               | 21535         |
| 5 | PCB-15    | 5.054          | bb               | 17510         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1248       | 74946               | 100.000              |
| 2 | A1248-11/15 | 48504               | 100.000              |
| 3 | A1248-14/15 | 35901               | 100.000              |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 01           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1254-17/18 | A 1254-19/20 | A 1254-20 | A 1254    |
|-----------|-------------|--------------|--------------|-----------|-----------|
| 1         | 031254B     | 617.8592     | 643.6308     | 834.1294  | 1083.1181 |
| 2         | 031254C     | 647.3582     | 664.6742     | 872.4202  | 1125.9373 |
| 3         | 031254D     | 637.2604     | 637.2992     | 836.9654  | 1090.1768 |
| 4         | 031254A     | 605.1700     | 611.1461     | 778.6061  | 1035.4491 |
| 5         | 031254E     | 647.6627     | 650.4201     | 855.7527  | 1112.2700 |
| Mean      |             | 631.062      | 641.434      | 835.575   | 1089.390  |
| Std. Dev. |             | 18.870       | 19.749       | 35.405    | 34.673    |
| % RSD     |             | 2.99         | 3.08         | 4.24      | 3.18      |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | TCMX      | DCBP      |
|-----------|-------------|-----------|-----------|
| 1         | 031254A     | 5239.8087 | 5025.4863 |
| 2         | 031254B     | 4970.9439 | 4342.2300 |
| 3         | 031254C     | 5058.9984 | 4303.6701 |
| 4         | 031254D     | 4821.8654 | 4111.6657 |
| 5         | 031254E     | 4809.5106 | 3903.1343 |
| Mean      |             | 4980.225  | 4337.237  |
| Std. Dev. |             | 178.813   | 422.542   |
| % RSD     |             | 3.59      | 9.74      |

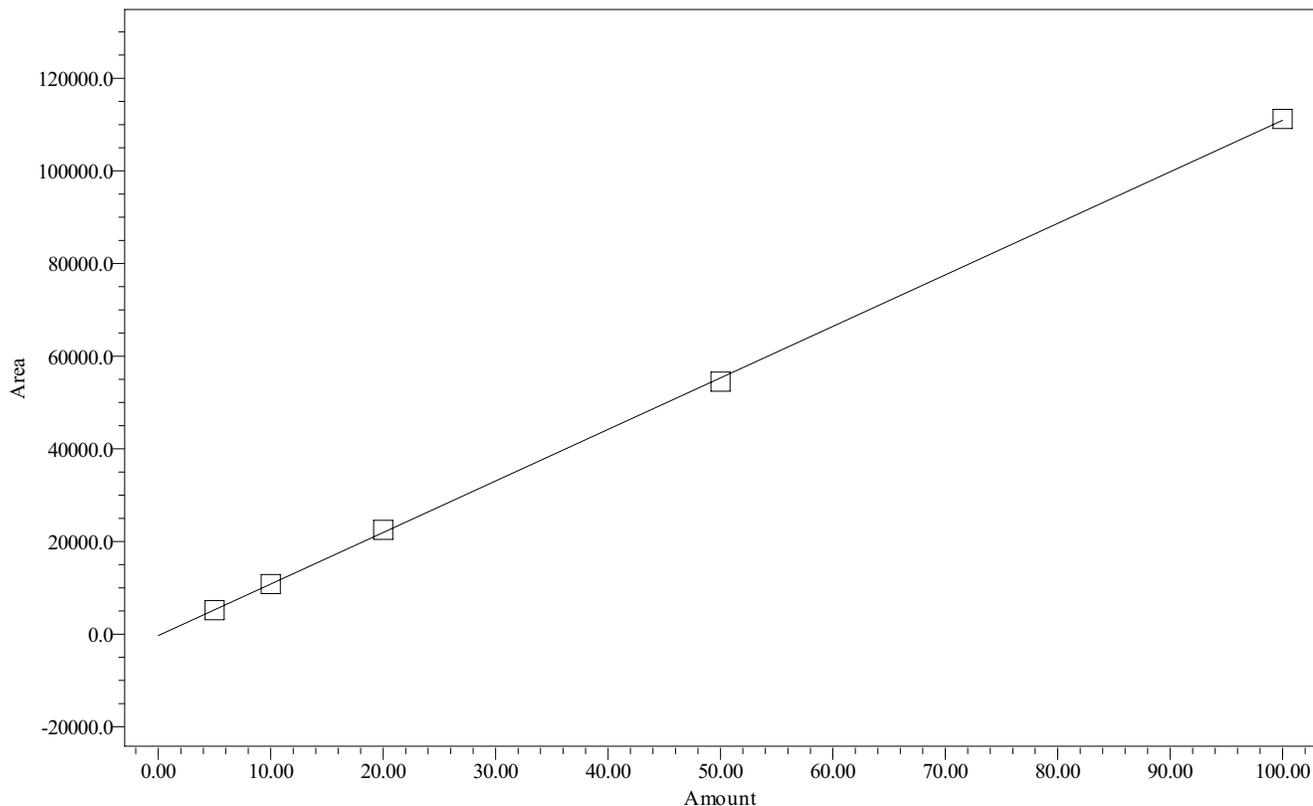
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254                    | Coefficient constant A:           | -300.862518 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1112.255821 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999893    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999785    |

Calibration Curve



Point Table  
Peak: A1254

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254 | 5.00       | 5177     | 4.9         | -1.496      | No     | No     |
| 2 | A 1254 | 10.00      | 10831    | 10.0        | 0.085       | No     | No     |
| 3 | A 1254 | 20.00      | 22519    | 20.5        | 2.583       | No     | No     |
| 4 | A 1254 | 50.00      | 54509    | 49.3        | -1.444      | No     | No     |
| 5 | A 1254 | 100.00     | 111227   | 100.3       | 0.272       | No     | No     |

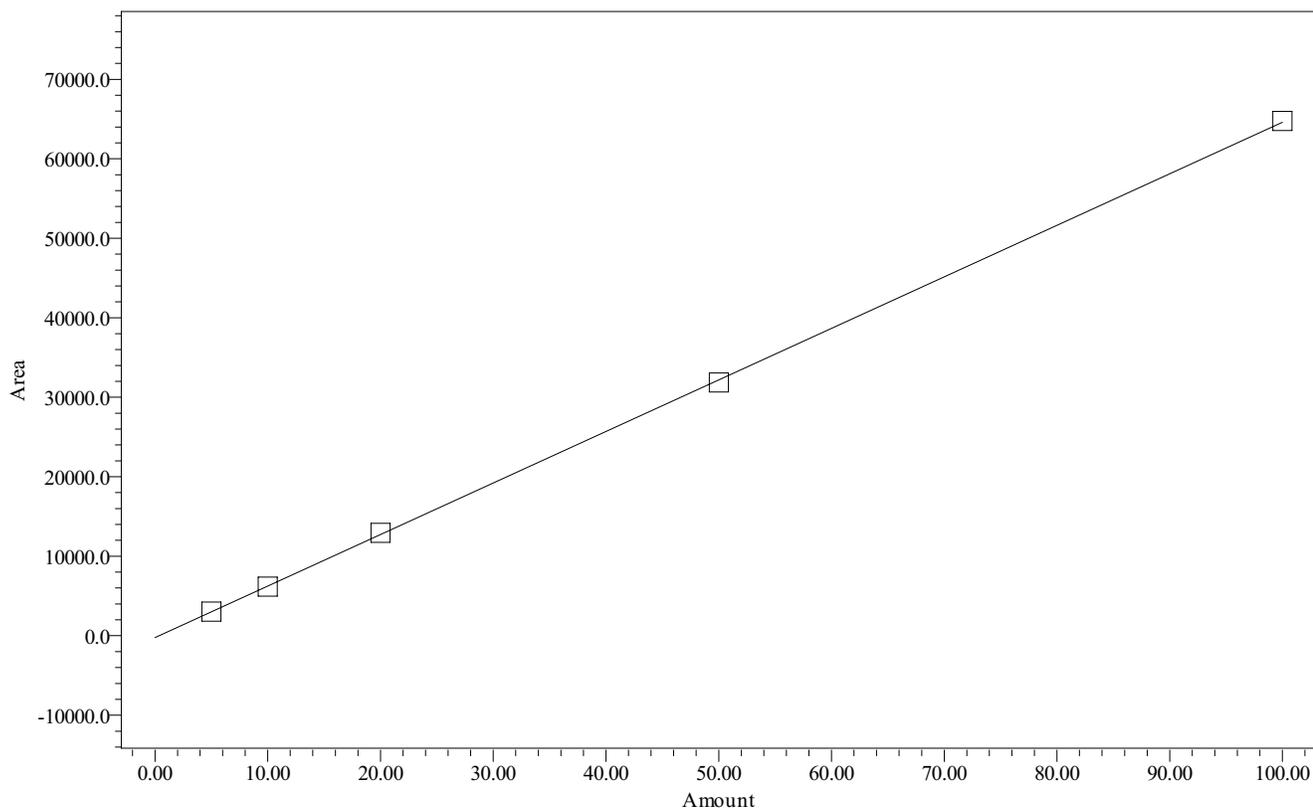
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-17/18              | Coefficient constant A:           | -224.548431 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 648.127772  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999948    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999897    |

Calibration Curve



Point Table  
Peak: A1254-17/18

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-17/18 | 5.00       | 3026     | 5.0         | 0.301       | No     | No     |
| 2 | A 1254-17/18 | 10.00      | 6179     | 9.9         | -1.206      | No     | No     |
| 3 | A 1254-17/18 | 20.00      | 12947    | 20.3        | 1.614       | No     | No     |
| 4 | A 1254-17/18 | 50.00      | 31863    | 49.5        | -0.984      | No     | No     |
| 5 | A 1254-17/18 | 100.00     | 64766    | 100.3       | 0.275       | No     | No     |

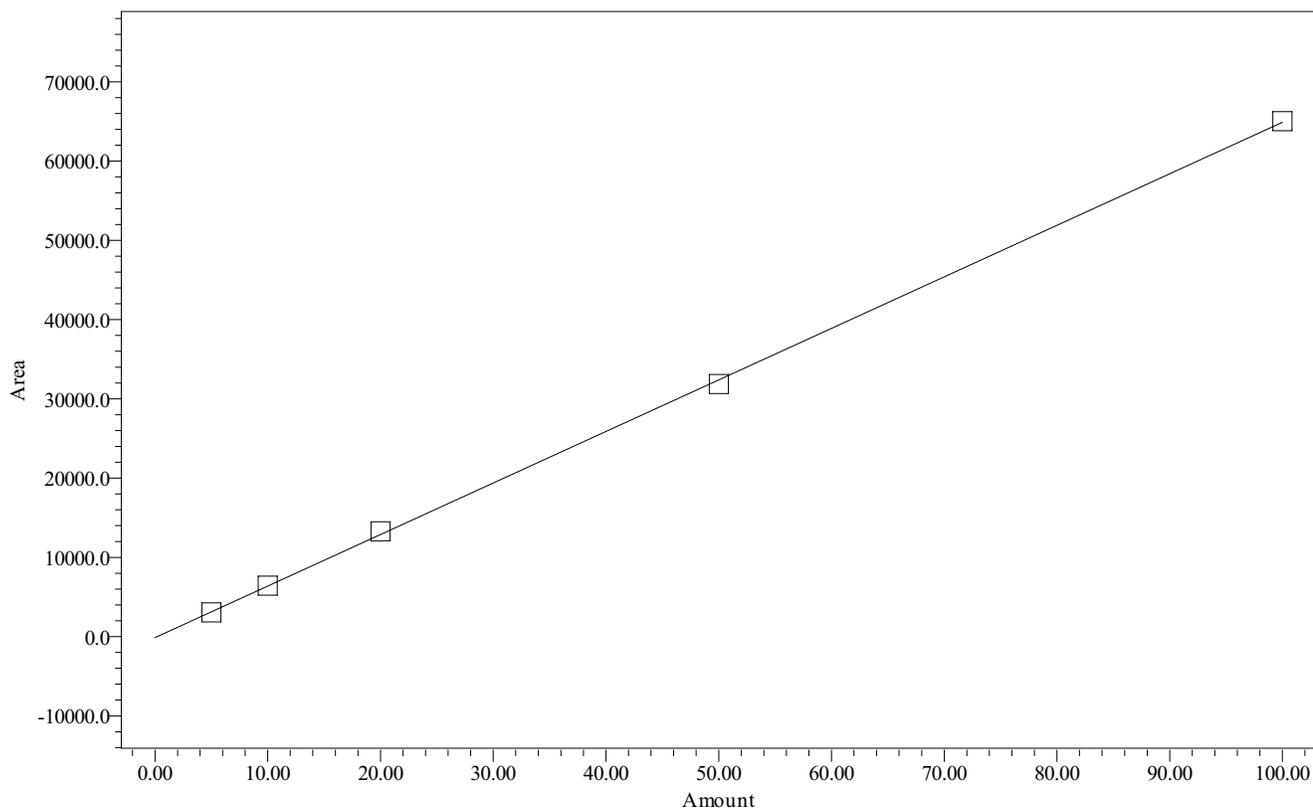
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-19/20              | Coefficient constant A:           | -113.376258 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 650.050662  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999846    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999692    |

Calibration Curve



Point Table  
Peak: A1254-19/20

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-19/20 | 5.00       | 3056     | 4.9         | -2.497      | No     | No     |
| 2 | A 1254-19/20 | 10.00      | 6436     | 10.1        | 0.757       | No     | No     |
| 3 | A 1254-19/20 | 20.00      | 13293    | 20.6        | 3.122       | No     | No     |
| 4 | A 1254-19/20 | 50.00      | 31865    | 49.2        | -1.613      | No     | No     |
| 5 | A 1254-19/20 | 100.00     | 65042    | 100.2       | 0.231       | No     | No     |

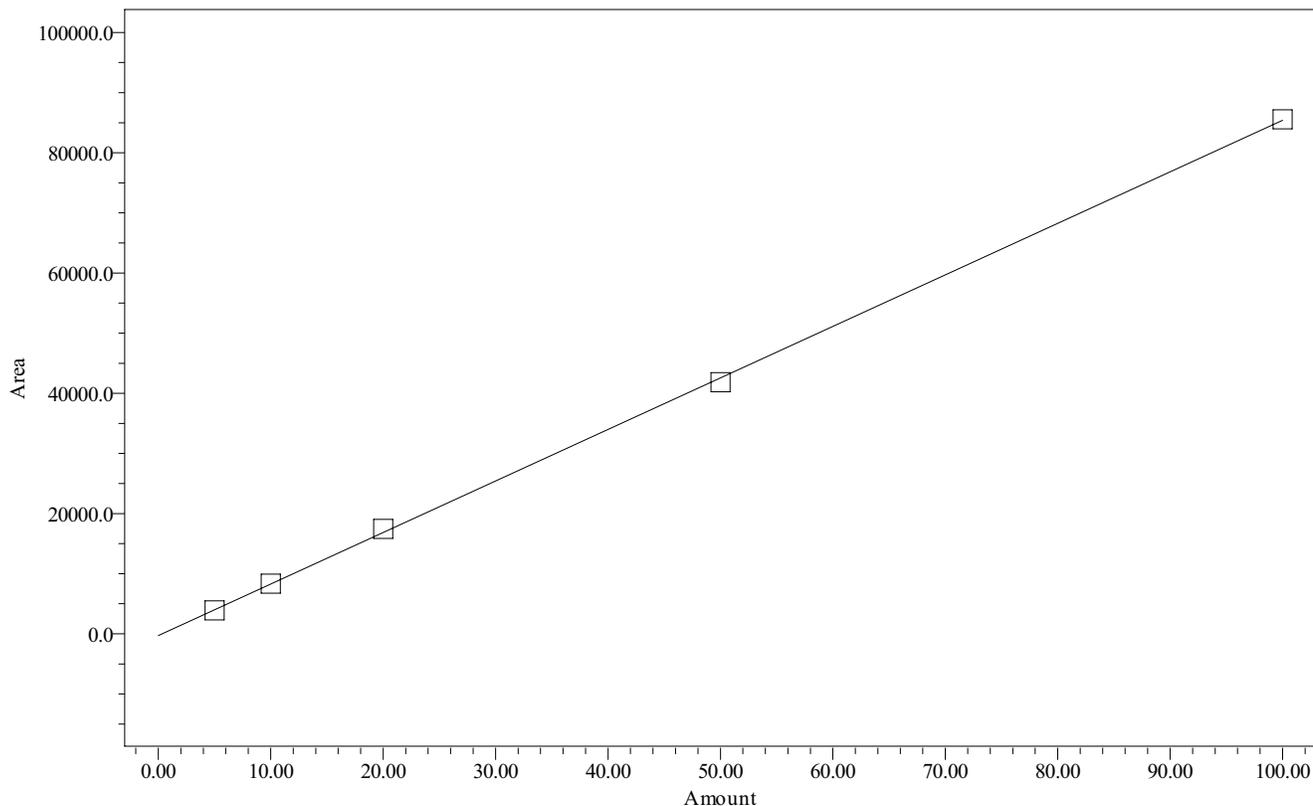
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1254-20                 | Coefficient constant A:           | -278.690942 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 856.755281  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999824    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999649    |

Calibration Curve



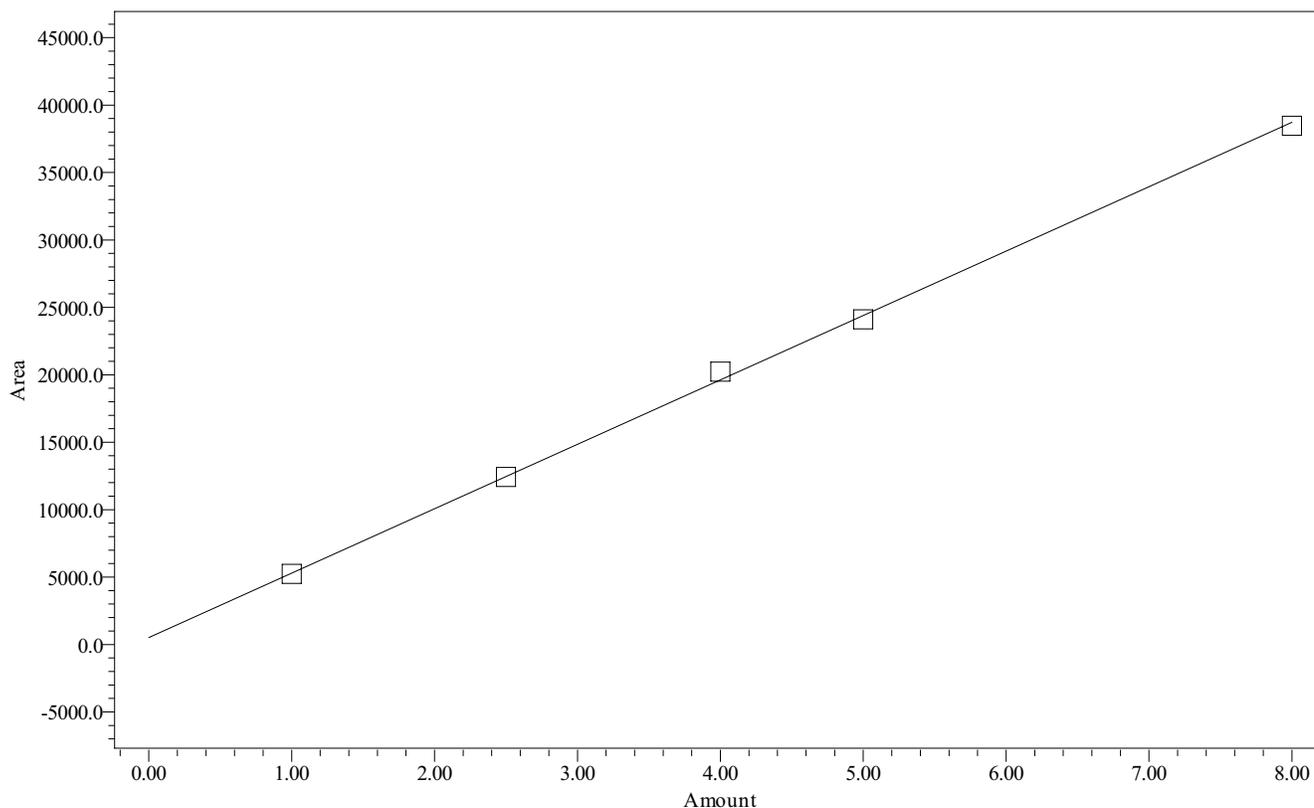
Point Table  
Peak: A1254-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1254-20 | 5.00       | 3893     | 4.9         | -2.616      | No     | No     |
| 2 | A 1254-20 | 10.00      | 8341     | 10.1        | 0.612       | No     | No     |
| 3 | A 1254-20 | 20.00      | 17448    | 20.7        | 3.455       | No     | No     |
| 4 | A 1254-20 | 50.00      | 41848    | 49.2        | -1.659      | No     | No     |
| 5 | A 1254-20 | 100.00     | 85575    | 100.2       | 0.208       | No     | No     |

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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | TCMX                     | Coefficient constant A:                       | 518.497735  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 4775.418806 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999659    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999318    |

Calibration Curve



Point Table  
Peak: TCMX

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | TCMX | 1.00       | 5240     | 1.0         | -1.133      | No     | No     |
| 2 | TCMX | 2.50       | 12427    | 2.5         | -0.249      | No     | No     |
| 3 | TCMX | 4.00       | 20236    | 4.1         | 3.224       | No     | No     |
| 4 | TCMX | 5.00       | 24109    | 4.9         | -1.199      | No     | No     |
| 5 | TCMX | 8.00       | 38476    | 7.9         | -0.643      | No     | No     |

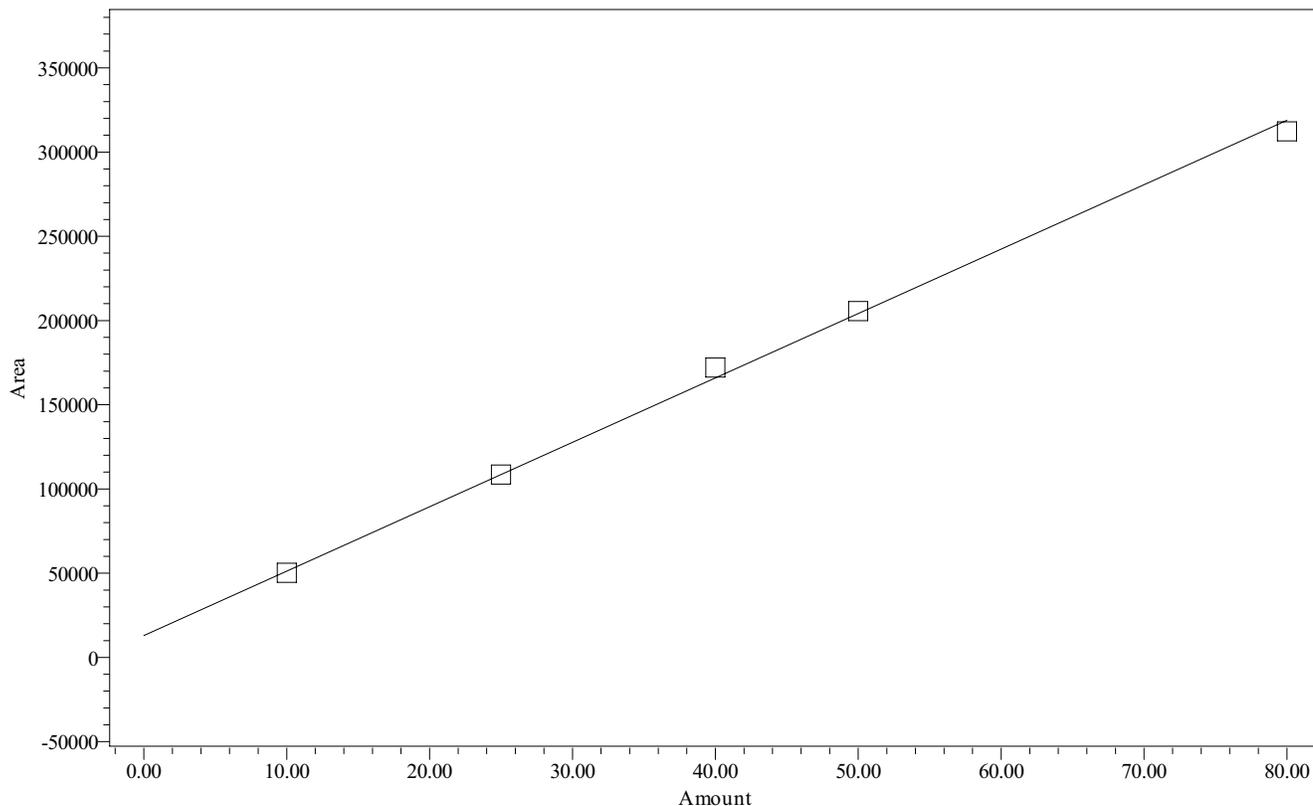
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|                    |                          |                                   |              |
|--------------------|--------------------------|-----------------------------------|--------------|
| Name:              | DCBP                     | Coefficient constant A:           | 13024.115250 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 3822.784713  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000     |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000     |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999282     |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998564     |

Calibration Curve



Point Table  
Peak: DCBP

|   | Name | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|------|------------|----------|-------------|-------------|--------|--------|
| 1 | DCBP | 10.00      | 50255    | 9.7         | -2.608      | No     | No     |
| 2 | DCBP | 25.00      | 108556   | 25.0        | -0.040      | No     | No     |
| 3 | DCBP | 40.00      | 172147   | 41.6        | 4.062       | No     | No     |
| 4 | DCBP | 50.00      | 205583   | 50.4        | 0.743       | No     | No     |
| 5 | DCBP | 80.00      | 312251   | 78.3        | -2.157      | No     | No     |

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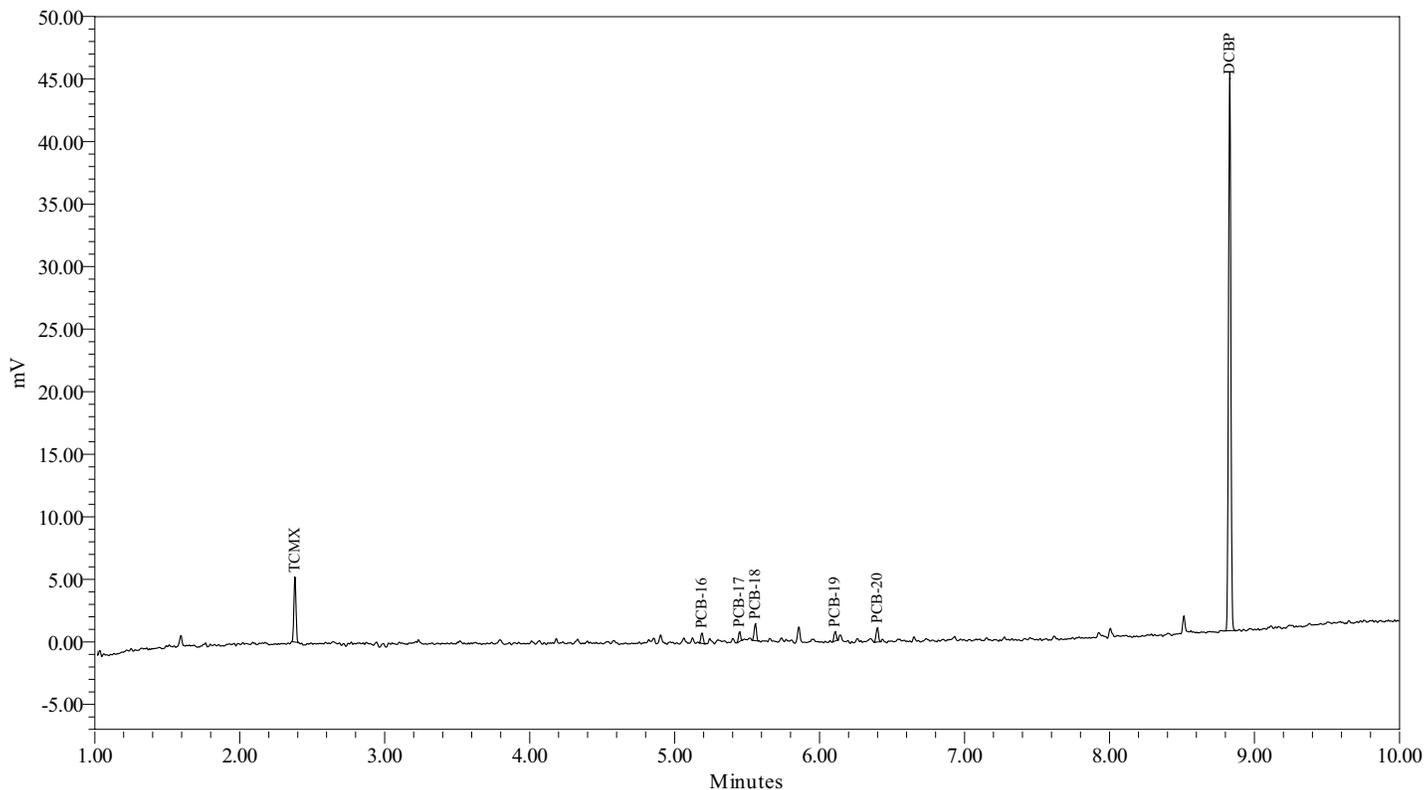
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:44:41 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:46:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:30:47 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-28 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.381          | bb               | 5240          | 1.000                |
| 2 PCB-16  | 5.188          | bb               | 904           |                      |
| 3 PCB-17  | 5.448          | bb               | 724           |                      |
| 4 PCB-18  | 5.557          | bb               | 1427          |                      |
| 5 PCB-19  | 6.107          | bb               | 837           |                      |
| 6 PCB-20  | 6.399          | bb               | 1284          |                      |
| 7 DCBP    | 8.829          | bb               | 50255         | 10.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 5177                | 5.000                |
| 2 A 1254-17/18 | 3026                | 5.000                |
| 3 A 1254-19/20 | 3056                | 5.000                |
| 4 A 1254-20    | 3893                | 5.000                |
| 5 A 1260       | 1284                |                      |
| 6 A 1260-23/24 | 1284                |                      |
| 7 A 1262       | 1284                |                      |



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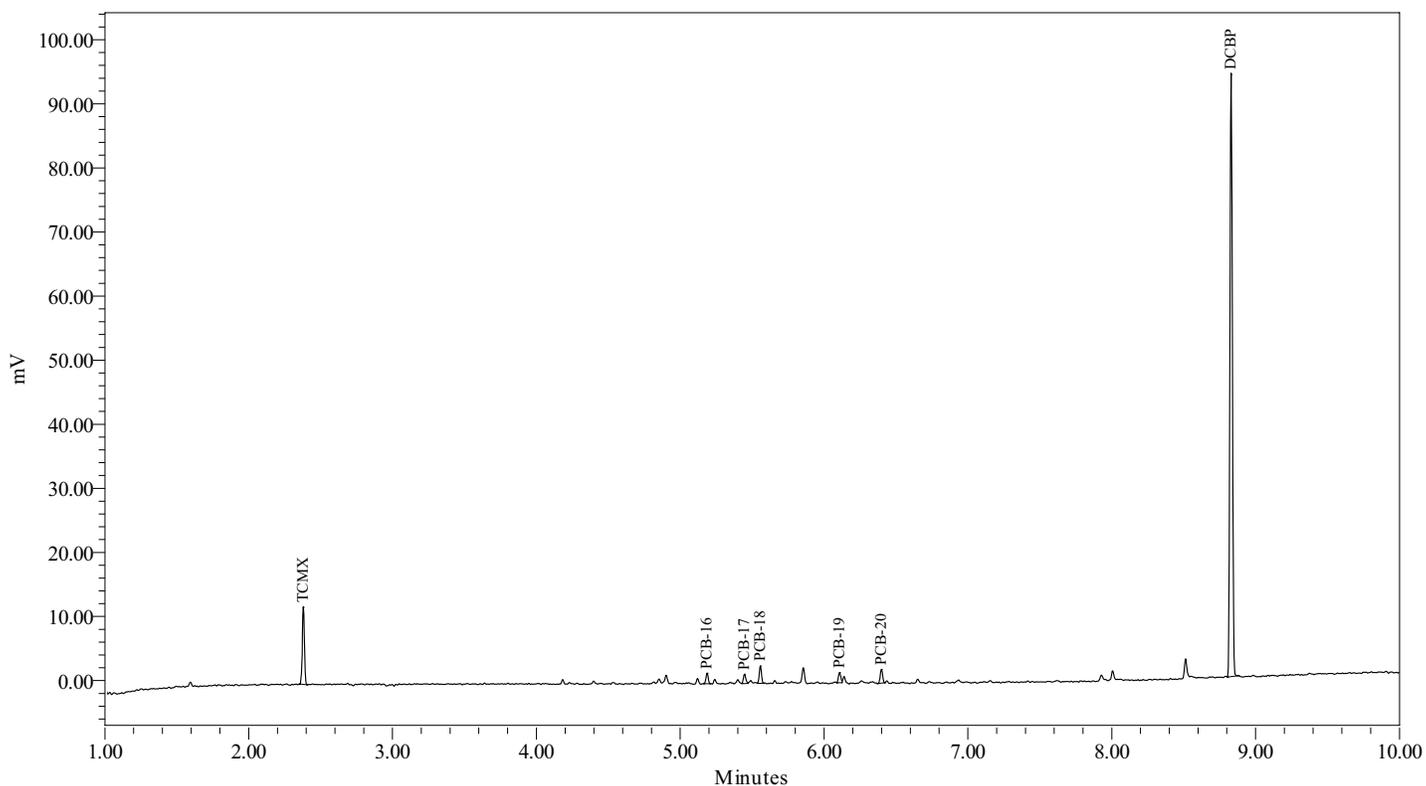
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 7:58:31 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:41:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:05 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-29 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 12427         | 2.500                |
| 2 PCB-16  | 5.187          | bb               | 1784          |                      |
| 3 PCB-17  | 5.447          | bV               | 1747          |                      |
| 4 PCB-18  | 5.557          | Vb               | 2905          |                      |
| 5 PCB-19  | 6.108          | bV               | 1905          |                      |
| 6 PCB-20  | 6.399          | bb               | 2490          |                      |
| 7 DCBP    | 8.830          | bb               | 108556        | 25.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 10831               | 10.000               |
| 2 A 1254-17/18 | 6179                | 10.000               |
| 3 A 1254-19/20 | 6436                | 10.000               |
| 4 A 1254-20    | 8341                | 10.000               |
| 5 A 1260       | 2490                |                      |
| 6 A 1260-23/24 | 2490                |                      |
| 7 A 1262       | 2490                |                      |



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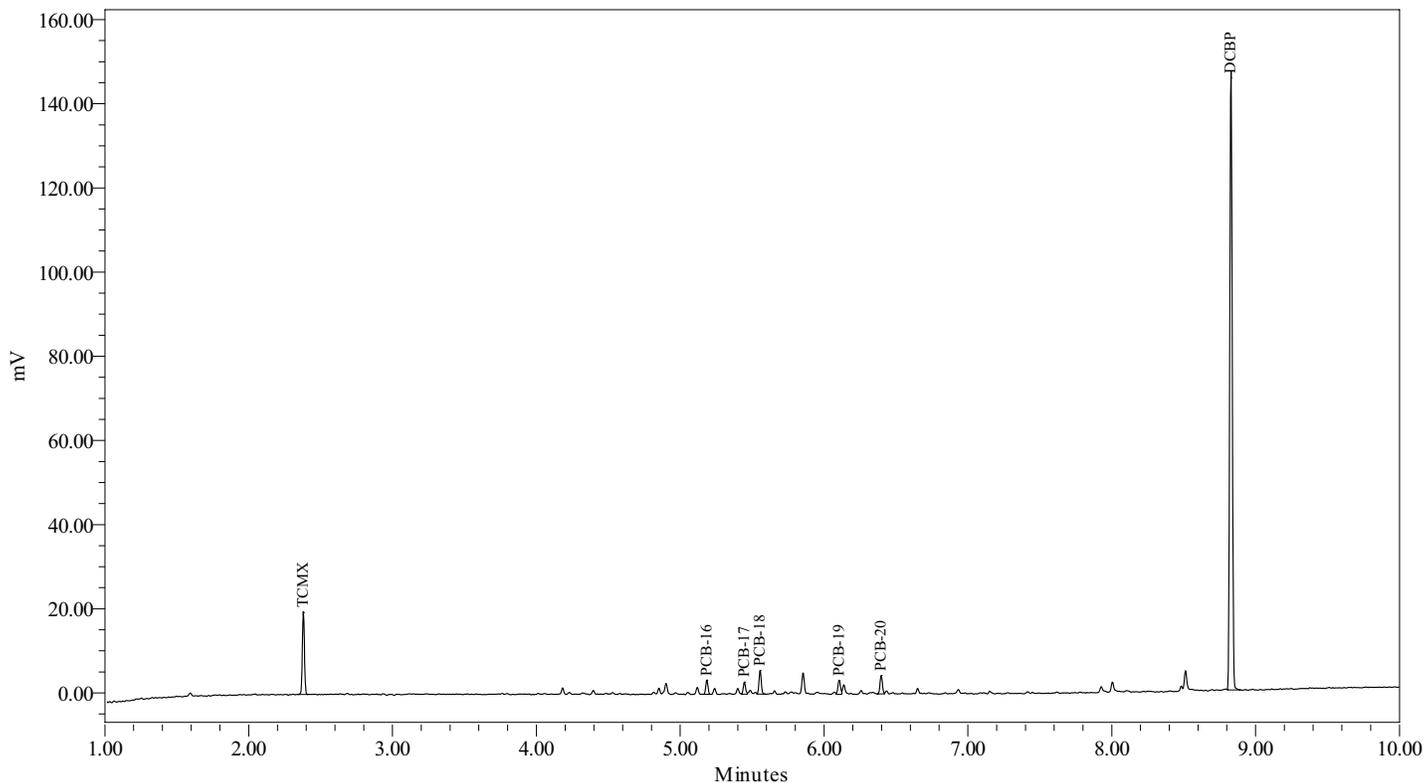
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:12:24 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:18 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-30 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 20236         | 4.000                |
| 2 PCB-16  | 5.186          | bb               | 3722          |                      |
| 3 PCB-17  | 5.446          | VV               | 3220          |                      |
| 4 PCB-18  | 5.556          | Vb               | 6352          |                      |
| 5 PCB-19  | 6.105          | VV               | 4155          |                      |
| 6 PCB-20  | 6.397          | bV               | 5070          |                      |
| 7 DCBP    | 8.829          | bb               | 172147        | 40.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 22519               | 20.000               |
| 2 A 1254-17/18 | 12947               | 20.000               |
| 3 A 1254-19/20 | 13293               | 20.000               |
| 4 A 1254-20    | 17448               | 20.000               |
| 5 A 1260       | 5070                |                      |
| 6 A 1260-23/24 | 5070                |                      |
| 7 A 1262       | 5070                |                      |



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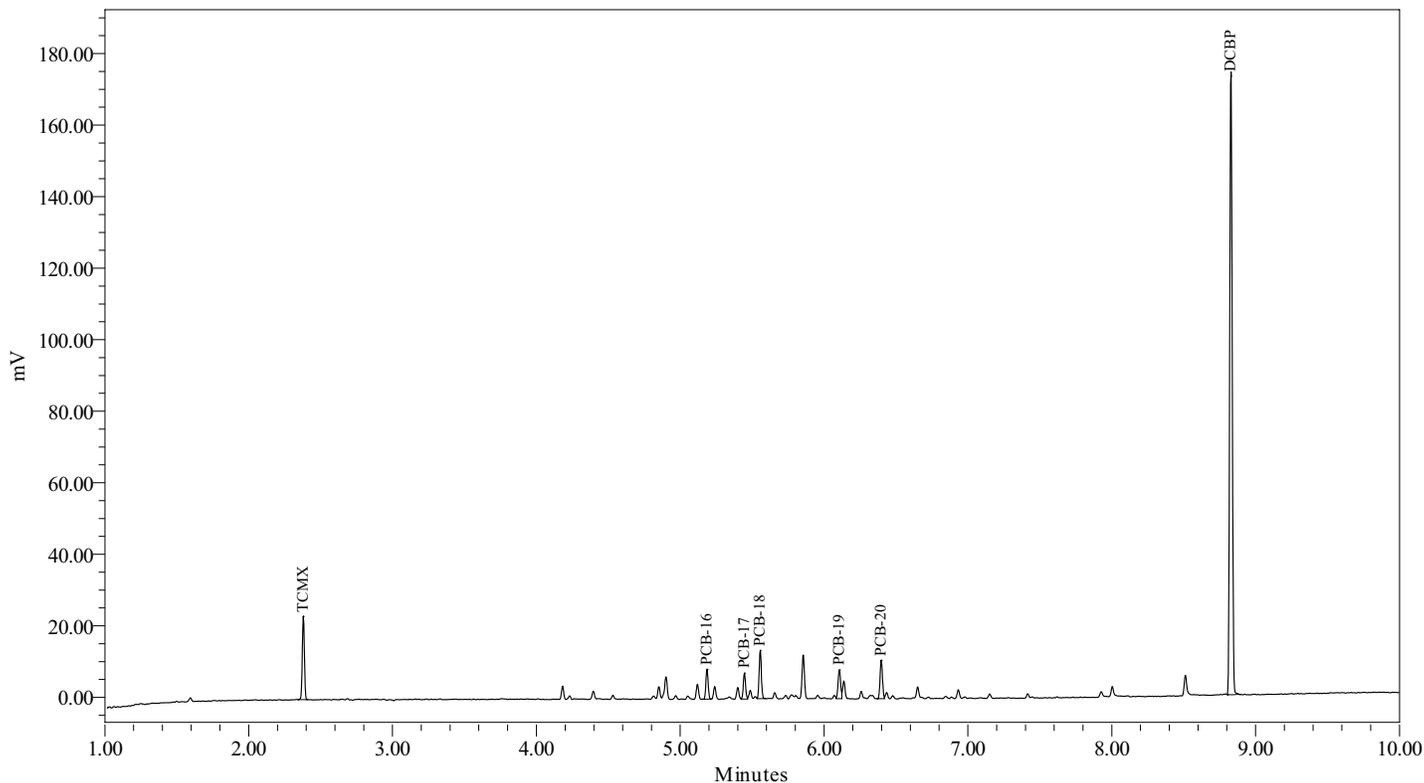
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:26:35 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:42:48 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:36 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-31 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.380          | bb               | 24109         | 5.000                |
| 2 PCB-16  | 5.186          | bb               | 9219          |                      |
| 3 PCB-17  | 5.446          | VV               | 8060          |                      |
| 4 PCB-18  | 5.556          | Vb               | 14586         |                      |
| 5 PCB-19  | 6.106          | VV               | 9983          |                      |
| 6 PCB-20  | 6.397          | bV               | 12661         |                      |
| 7 DCBP    | 8.829          | bb               | 205583        | 50.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 54509               | 50.000               |
| 2 A 1254-17/18 | 31863               | 50.000               |
| 3 A 1254-19/20 | 31865               | 50.000               |
| 4 A 1254-20    | 41848               | 50.000               |
| 5 A 1260       | 12661               |                      |
| 6 A 1260-23/24 | 12661               |                      |
| 7 A 1262       | 12661               |                      |



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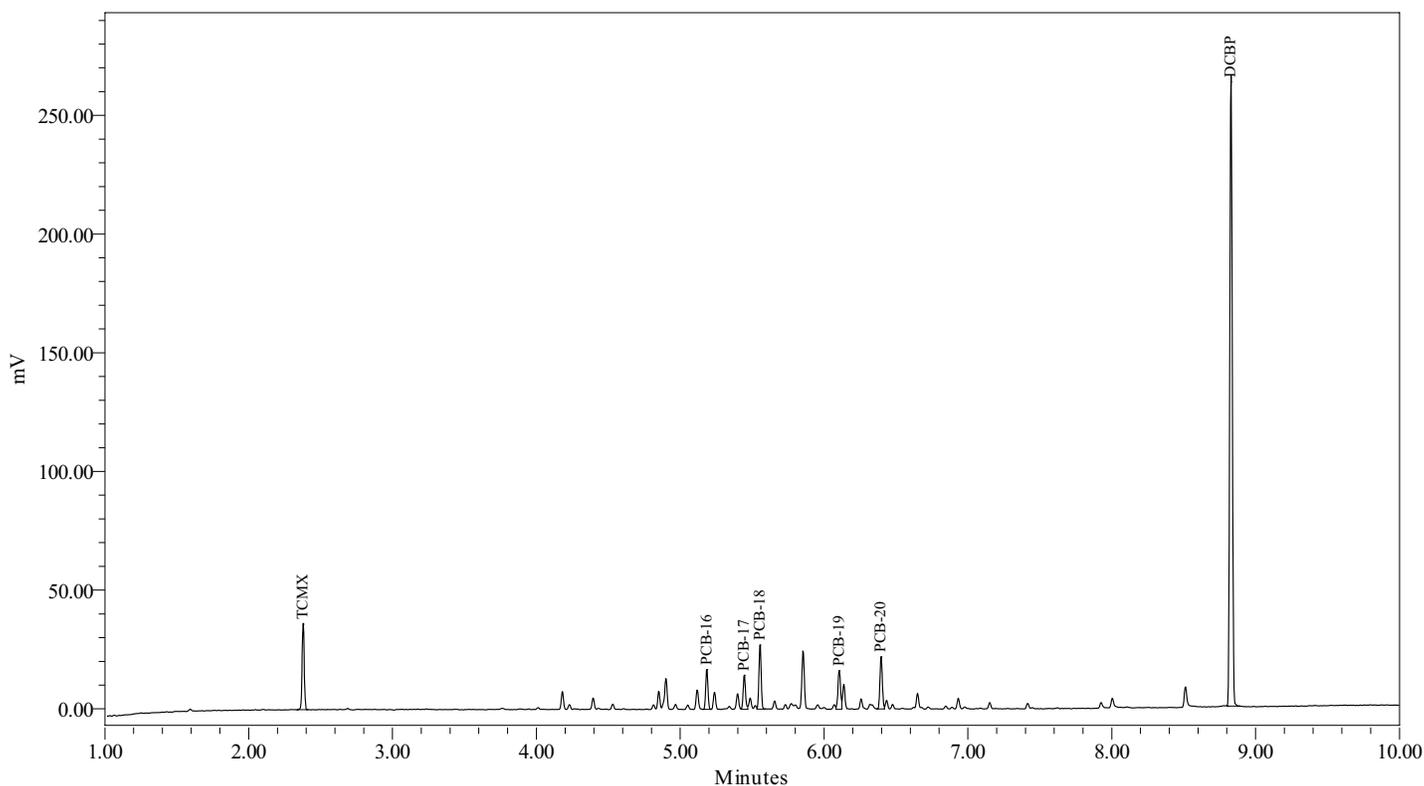
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031254E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1254 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:40:04 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 7:48:17 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:54 AM US/Eastern   |
| Report Name:       | CalStd_rpt_plt_1254      | LIMS File ID:   | GC28F-1565-32 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL |
|-----------|----------------|------------------|---------------|----------------------|
| 1 TCMX    | 2.379          | bb               | 38476         | 8.000                |
| 2 PCB-16  | 5.185          | bb               | 18581         |                      |
| 3 PCB-17  | 5.446          | VV               | 16462         |                      |
| 4 PCB-18  | 5.555          | VV               | 29999         |                      |
| 5 PCB-19  | 6.105          | VV               | 20533         |                      |
| 6 PCB-20  | 6.397          | bV               | 25652         |                      |
| 7 DCBP    | 8.829          | bb               | 312251        | 80.000               |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL |
|----------------|---------------------|----------------------|
| 1 A 1254       | 111227              | 100.000              |
| 2 A 1254-17/18 | 64766               | 100.000              |
| 3 A 1254-19/20 | 65042               | 100.000              |
| 4 A 1254-20    | 85575               | 100.000              |
| 5 A 1260       | 25652               |                      |
| 6 A 1260-23/24 | 25652               |                      |
| 7 A 1262       | 25652               |                      |



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|                    |                           |                  |                          |
|--------------------|---------------------------|------------------|--------------------------|
| System Name:       | Instrument_28_Ch01        | Date Calibrated: | 3/13/2015 8:27:00 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | Method Report:   | CCSum by RF 02           |
| Sample Set Date:   | 3/12/2015 11:57:41 AM EDT | User Name:       | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         |                  |                          |

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1260    | A 1260-20 | A 1260-23/24 |
|-----------|-------------|-----------|-----------|--------------|
| 1         | 031260A     | 1259.9683 | 906.4838  | 974.1454     |
| 2         | 031260B     | 1279.4639 | 950.1885  | 912.7428     |
| 3         | 031260C     | 1180.8541 | 838.0142  | 953.7277     |
| 4         | 031260D     | 1189.8381 | 847.7020  | 966.2153     |
| 5         | 031260E     | 1241.3035 | 883.9399  | 1007.7661    |
| Mean      |             | 1230.286  | 885.266   | 962.919      |
| Std. Dev. |             | 43.303    | 45.581    | 34.461       |
| % RSD     |             | 3.52      | 5.15      | 3.58         |

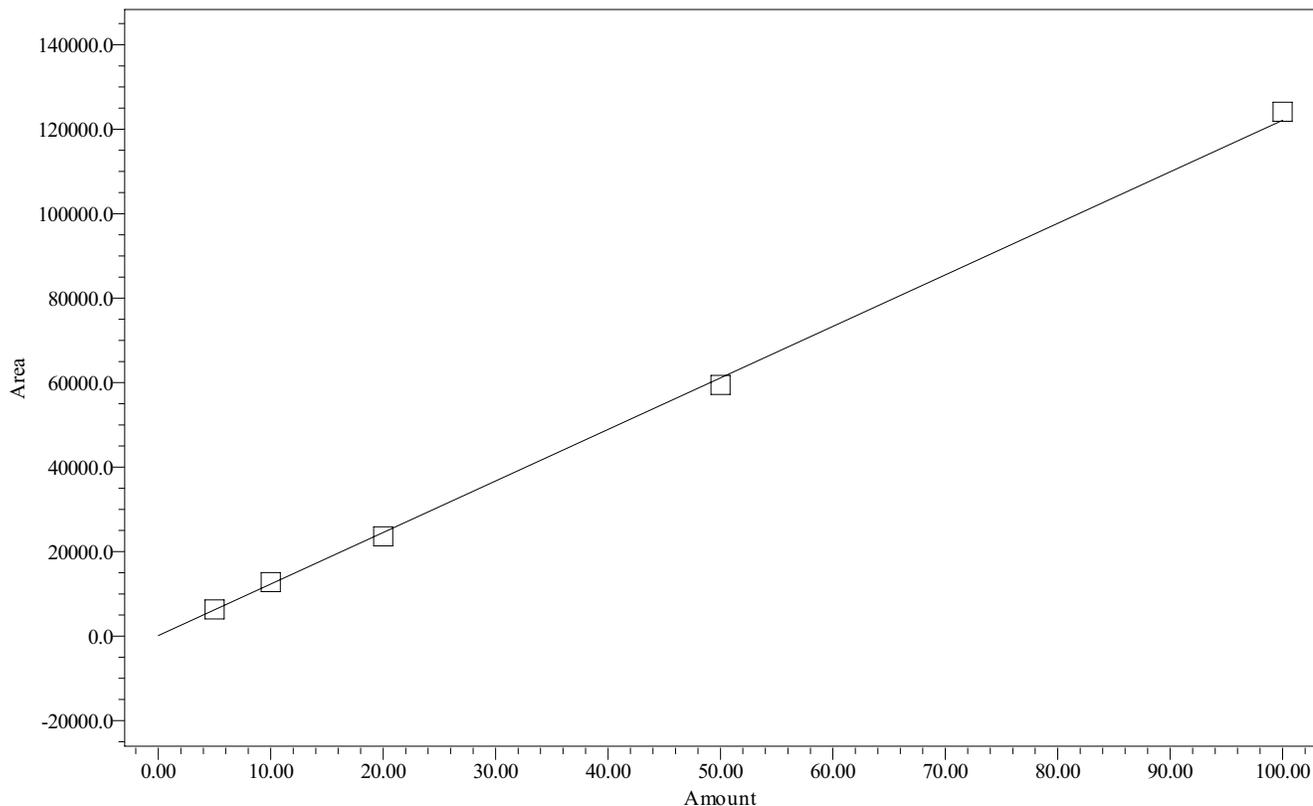
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1260                    | Coefficient constant A:                       | 140.067556  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1219.640457 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999555    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.999110    |

Calibration Curve



Point Table  
Peak: A1260

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260 | 5.00       | 6300     | 5.1         | 1.010       | No     | No     |
| 2 | A 1260 | 10.00      | 12795    | 10.4        | 3.757       | No     | No     |
| 3 | A 1260 | 20.00      | 23617    | 19.2        | -3.754      | No     | No     |
| 4 | A 1260 | 50.00      | 59492    | 48.7        | -2.673      | No     | No     |
| 5 | A 1260 | 100.00     | 124130   | 101.7       | 1.661       | No     | No     |

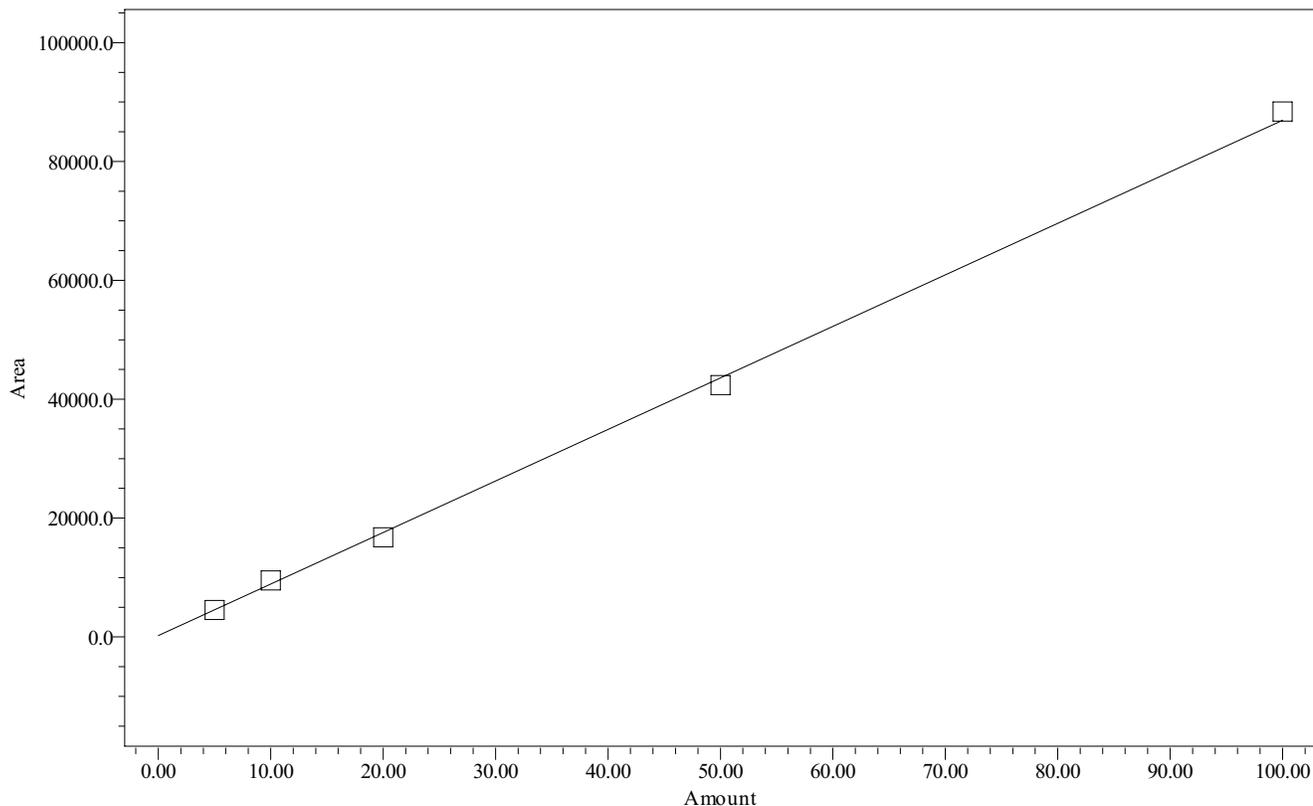
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|                    |                          |                                   |            |
|--------------------|--------------------------|-----------------------------------|------------|
| Name:              | A1260-20                 | Coefficient constant A:           | 242.877912 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 866.806974 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000   |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000   |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999335   |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998671   |

Calibration Curve



Point Table  
Peak: A1260-20

|   | Name      | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|-----------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-20 | 5.00       | 4532     | 4.9         | -1.027      | No     | No     |
| 2 | A 1260-20 | 10.00      | 9502     | 10.7        | 6.817       | No     | No     |
| 3 | A 1260-20 | 20.00      | 16760    | 19.1        | -4.723      | No     | No     |
| 4 | A 1260-20 | 50.00      | 42385    | 48.6        | -2.764      | No     | No     |
| 5 | A 1260-20 | 100.00     | 88394    | 101.7       | 1.696       | No     | No     |

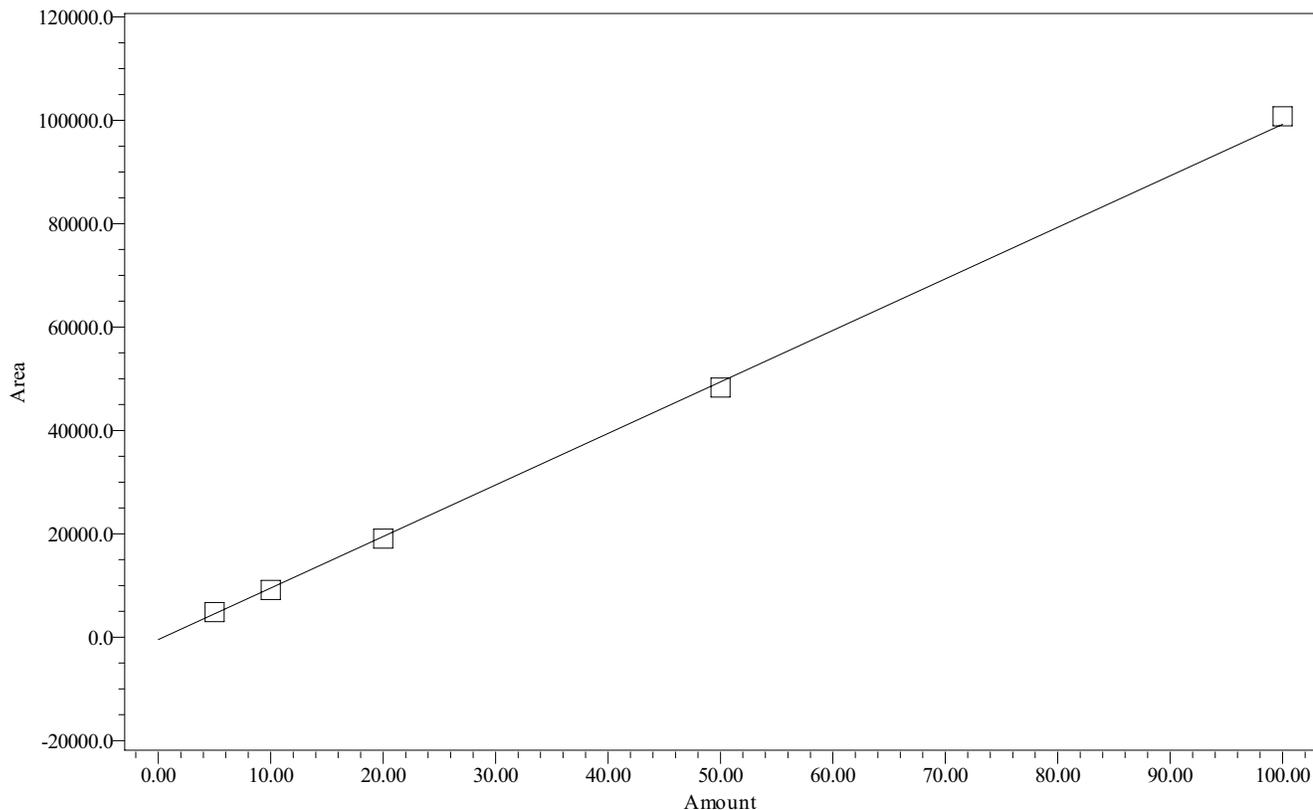
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1260-23/24              | Coefficient constant A:           | -443.706874 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 996.641196  |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999605    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.999210    |

Calibration Curve



Point Table  
Peak: A1260-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1260-23/24 | 5.00       | 4871     | 5.3         | 6.647       | No     | No     |
| 2 | A 1260-23/24 | 10.00      | 9127     | 9.6         | -3.966      | No     | No     |
| 3 | A 1260-23/24 | 20.00      | 19075    | 19.6        | -2.080      | No     | No     |
| 4 | A 1260-23/24 | 50.00      | 48311    | 48.9        | -2.162      | No     | No     |
| 5 | A 1260-23/24 | 100.00     | 100777   | 101.6       | 1.561       | No     | No     |

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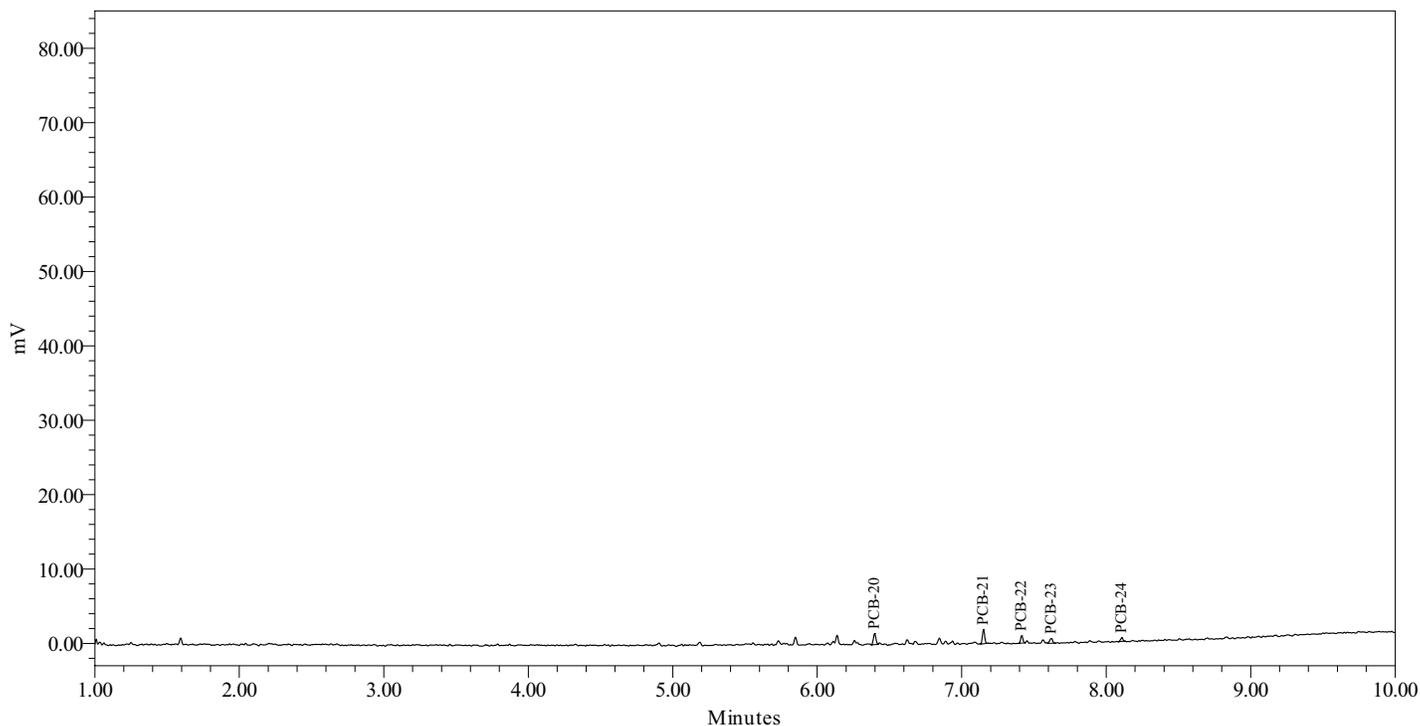
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260A                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 5 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 8:53:32 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:13:43 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:08 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-33 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.397          | bb               | 1767          |
| 2 | PCB-21    | 7.151          | bb               | 2078          |
| 3 | PCB-22    | 7.415          | bb               | 1025          |
| 4 | PCB-23    | 7.619          | bb               | 884           |
| 5 | PCB-24    | 8.108          | bb               | 545           |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 1767                |                      |
| 2 | A1254-17/18 | 1767                |                      |
| 3 | A1260       | 6300                | 5.000                |
| 4 | A1260-20    | 4532                | 5.000                |
| 5 | A1260-23/24 | 4871                | 5.000                |
| 6 | A1262       | 6300                |                      |
| 7 | A1268       | 1429                |                      |



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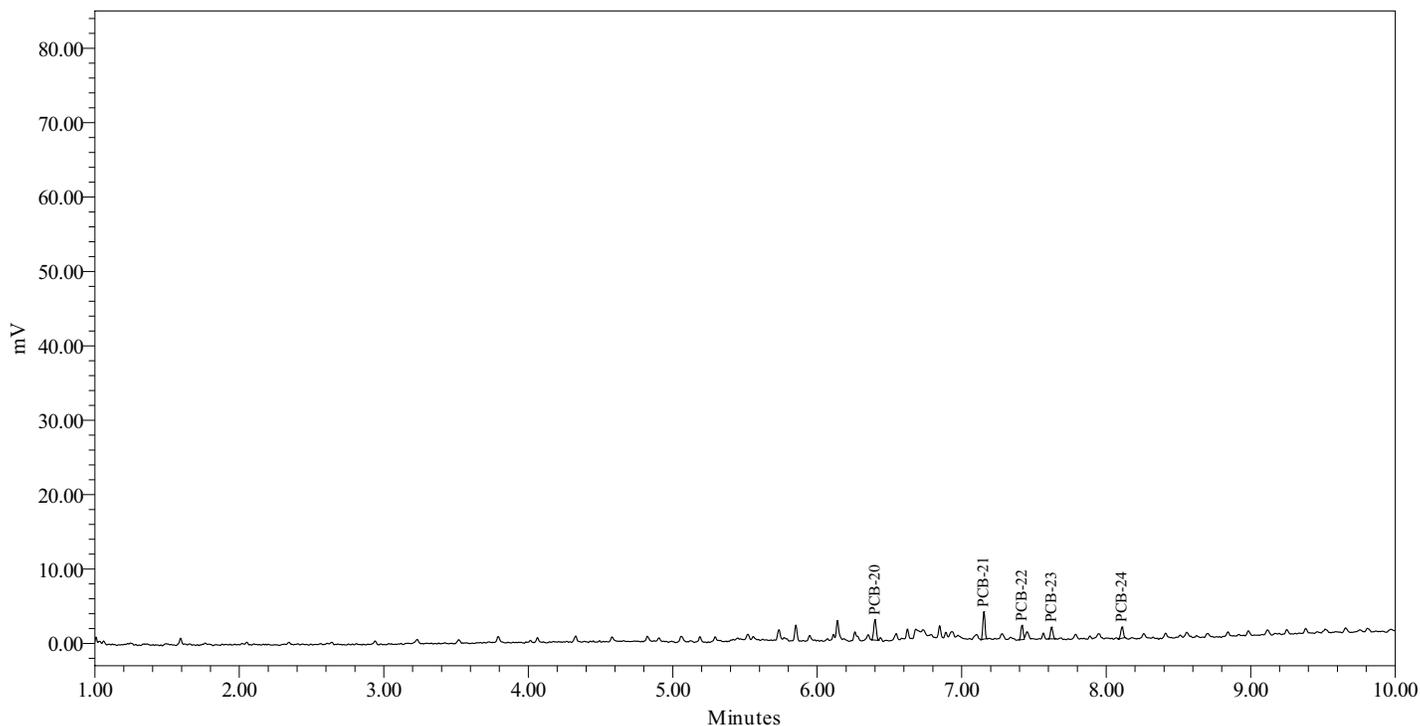
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260B                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 10 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:07:43 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:21 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:28 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-34 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bb               | 3293          |
| 2 | PCB-21    | 7.154          | bb               | 3751          |
| 3 | PCB-22    | 7.417          | bV               | 2084          |
| 4 | PCB-23    | 7.622          | bb               | 1812          |
| 5 | PCB-24    | 8.110          | bb               | 1855          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3293                |                      |
| 2 | A1254-17/18 | 3293                |                      |
| 3 | A1260       | 12795               | 10.000               |
| 4 | A1260-20    | 9502                | 10.000               |
| 5 | A1260-23/24 | 9127                | 10.000               |
| 6 | A1262       | 12795               |                      |
| 7 | A1268       | 3667                |                      |



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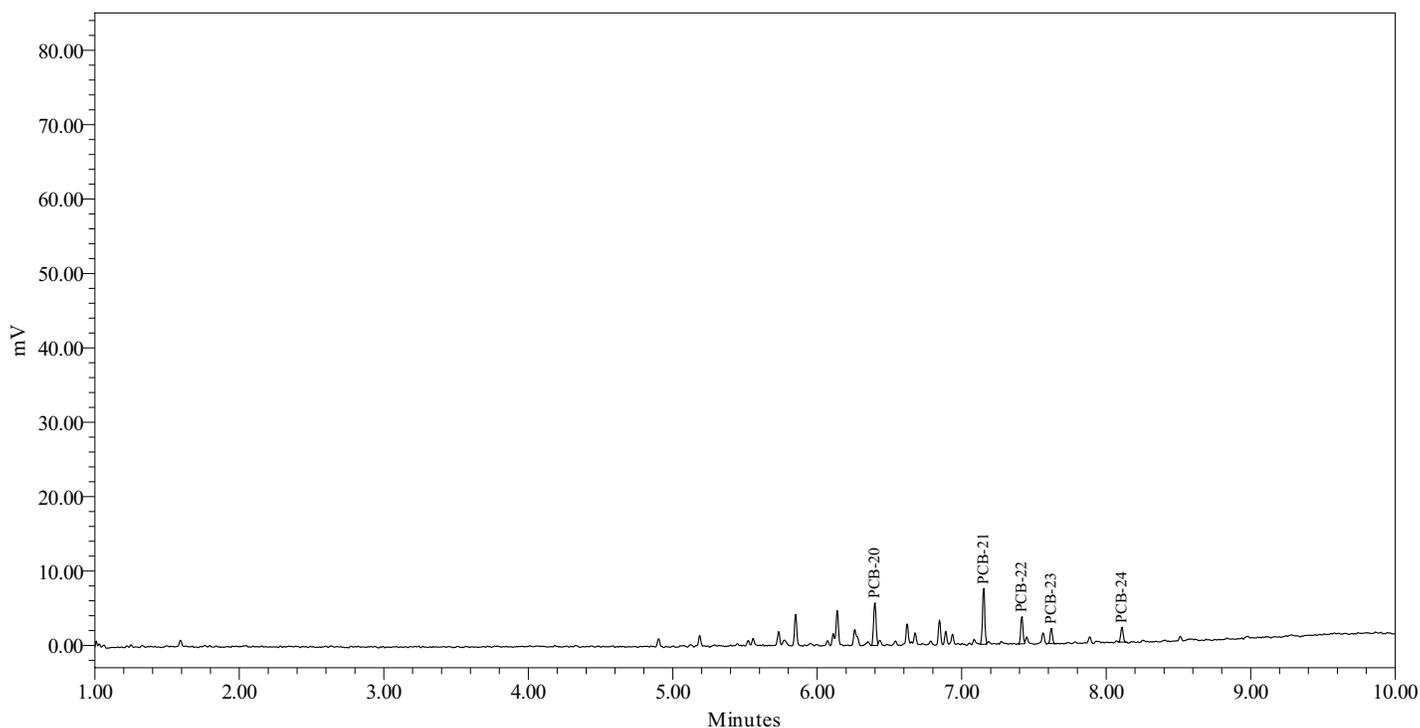
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260C                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 20 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:21:49 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:14:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:45:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-35 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bV               | 6857          |
| 2 | PCB-21    | 7.152          | bV               | 8361          |
| 3 | PCB-22    | 7.416          | bV               | 3857          |
| 4 | PCB-23    | 7.620          | bb               | 2258          |
| 5 | PCB-24    | 8.109          | bb               | 2285          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 6857                |                      |
| 2 | A1254-17/18 | 6857                |                      |
| 3 | A1260       | 23617               | 20.000               |
| 4 | A1260-20    | 16760               | 20.000               |
| 5 | A1260-23/24 | 19075               | 20.000               |
| 6 | A1262       | 23617               |                      |
| 7 | A1268       | 4543                |                      |



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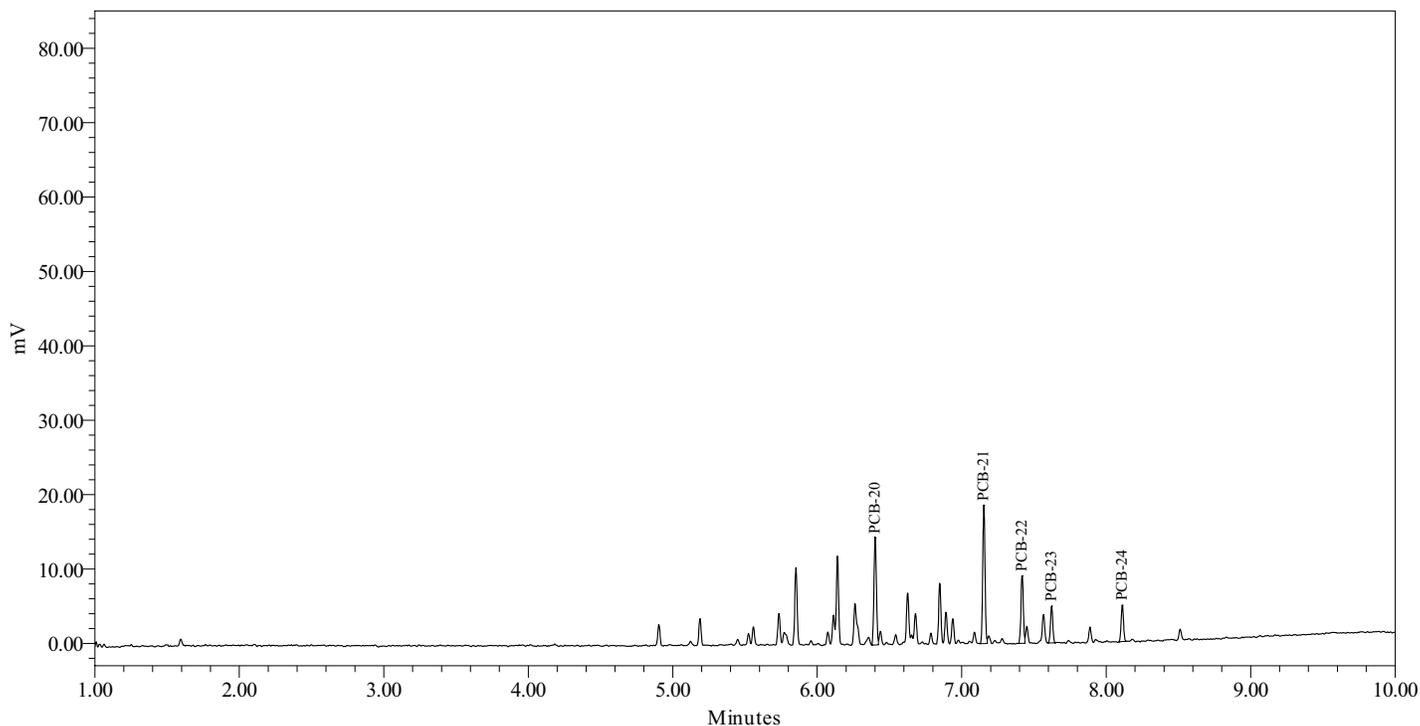
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260D                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:35:58 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:16 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-36 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | bV               | 17107         |
| 2 | PCB-21    | 7.153          | bV               | 21064         |
| 3 | PCB-22    | 7.418          | bV               | 10140         |
| 4 | PCB-23    | 7.623          | bb               | 5571          |
| 5 | PCB-24    | 8.111          | bb               | 5610          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 17107               |                      |
| 2 | A1254-17/18 | 17107               |                      |
| 3 | A1260       | 59492               | 50.000               |
| 4 | A1260-20    | 42385               | 50.000               |
| 5 | A1260-23/24 | 48311               | 50.000               |
| 6 | A1262       | 59492               |                      |
| 7 | A1268       | 11181               |                      |



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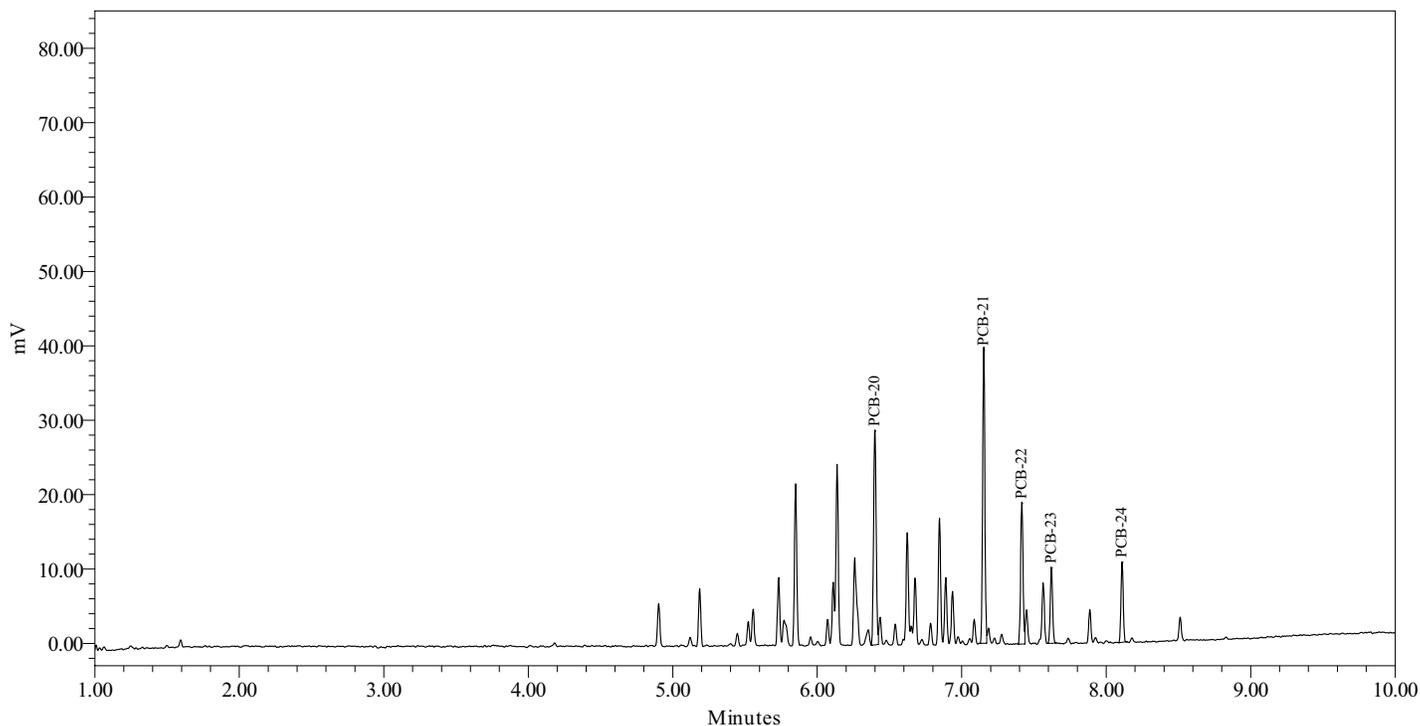
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 031260E                  | Sample Amount:  | 1                        |
| Sample ID:         | A1260 100 PPB            | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 9:49:38 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:15:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:46:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt           | LIMS File ID:   | GC28F-1565-37 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bV               | 35736         |
| 2 | PCB-21    | 7.152          | bV               | 43415         |
| 3 | PCB-22    | 7.416          | bV               | 21625         |
| 4 | PCB-23    | 7.621          | bb               | 11617         |
| 5 | PCB-24    | 8.110          | bb               | 11737         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 35736               |                      |
| 2 | A1254-17/18 | 35736               |                      |
| 3 | A1260       | 124130              | 100.000              |
| 4 | A1260-20    | 88394               | 100.000              |
| 5 | A1260-23/24 | 100777              | 100.000              |
| 6 | A1262       | 124130              |                      |
| 7 | A1268       | 23354               |                      |



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System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary  
Table

Component Summary For RF

|           | Sample Name | A 1262    |
|-----------|-------------|-----------|
| 1         | 031262A     | 1299.1451 |
| 2         | 031262B     | 1474.0539 |
| 3         | 031262C     | 1315.0821 |
| 4         | 031262D     | 1359.0903 |
| 5         | 031262E     | 1225.6906 |
| Mean      |             | 1334.612  |
| Std. Dev. |             | 91.578    |
| % RSD     |             | 6.86      |

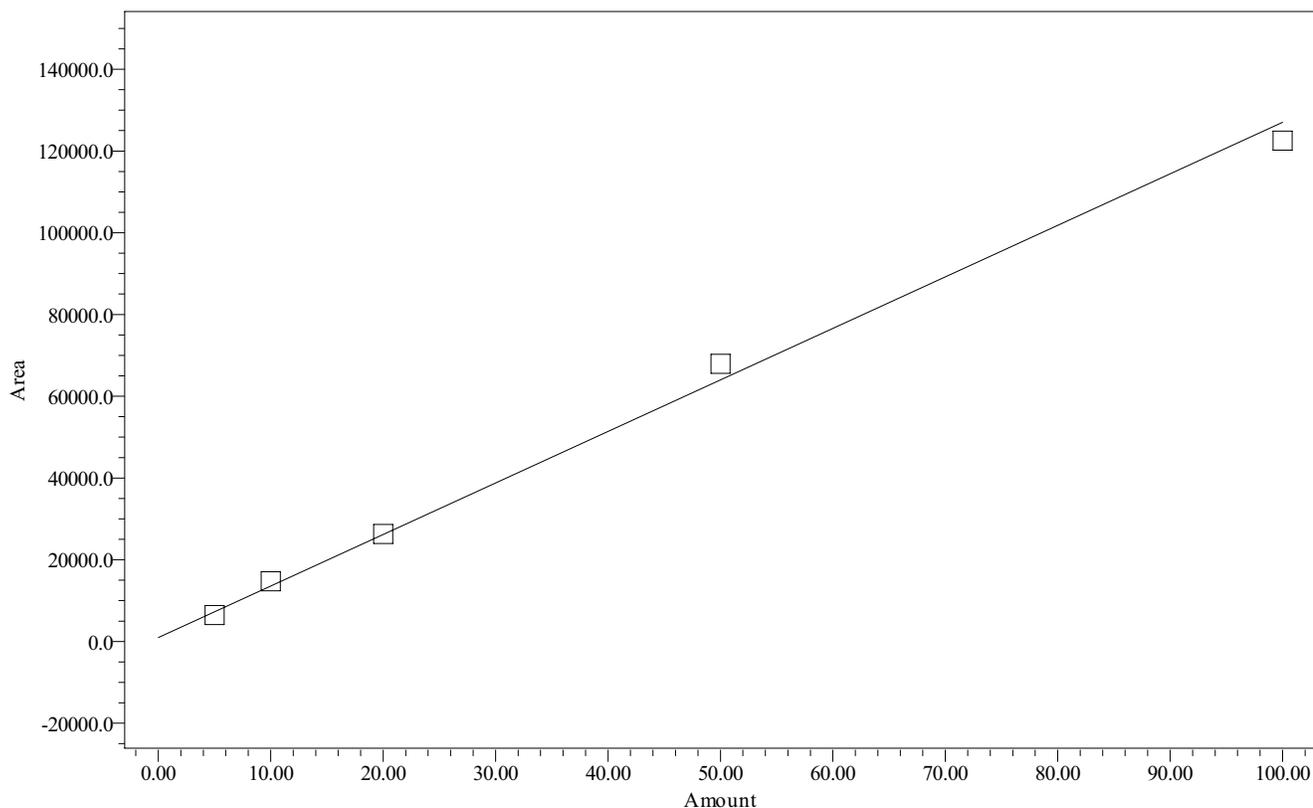
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|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1262                    | Coefficient constant A:                       | 975.917623  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 1260.442653 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.997976    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.995956    |

Calibration Curve



Point Table  
Peak: A1262

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1262 | 5.00       | 6496     | 4.4         | -12.415     | No     | No     |
| 2 | A 1262 | 10.00      | 14741    | 10.9        | 9.205       | No     | No     |
| 3 | A 1262 | 20.00      | 26302    | 20.1        | 0.464       | No     | No     |
| 4 | A 1262 | 50.00      | 67955    | 53.1        | 6.278       | No     | No     |
| 5 | A 1262 | 100.00     | 122569   | 96.5        | -3.531      | No     | No     |

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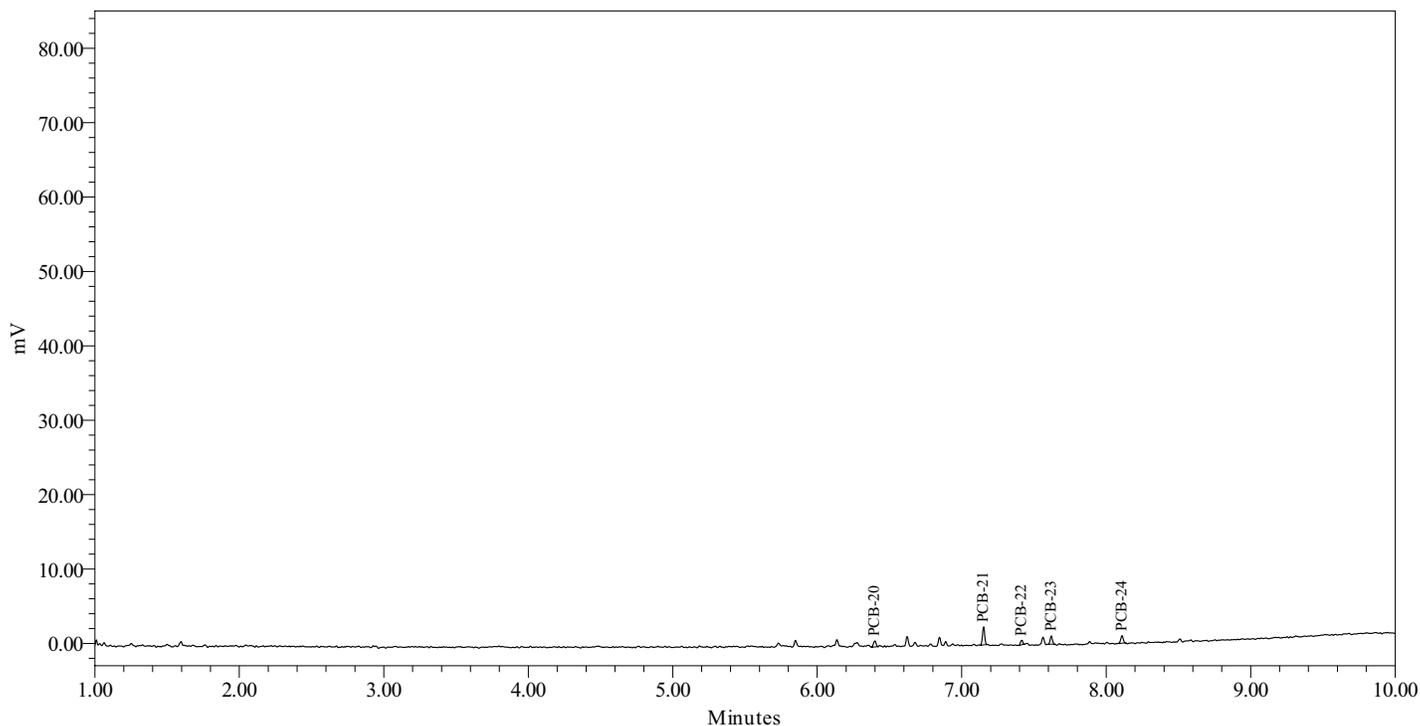
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:03:00 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:18:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:46:47 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-38 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.398          | bb               | 958           |
| 2 | PCB-21    | 7.151          | bb               | 2557          |
| 3 | PCB-22    | 7.414          | bb               | 617           |
| 4 | PCB-23    | 7.620          | bb               | 1184          |
| 5 | PCB-24    | 8.109          | bb               | 1179          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 958                 |                      |
| 2 | A1254-17/18 | 958                 |                      |
| 3 | A1260       | 6496                |                      |
| 4 | A1260-20    | 5538                |                      |
| 5 | A1260-23/24 | 4133                |                      |
| 6 | A1262       | 6496                | 5.000                |
| 7 | A1268       | 2363                |                      |



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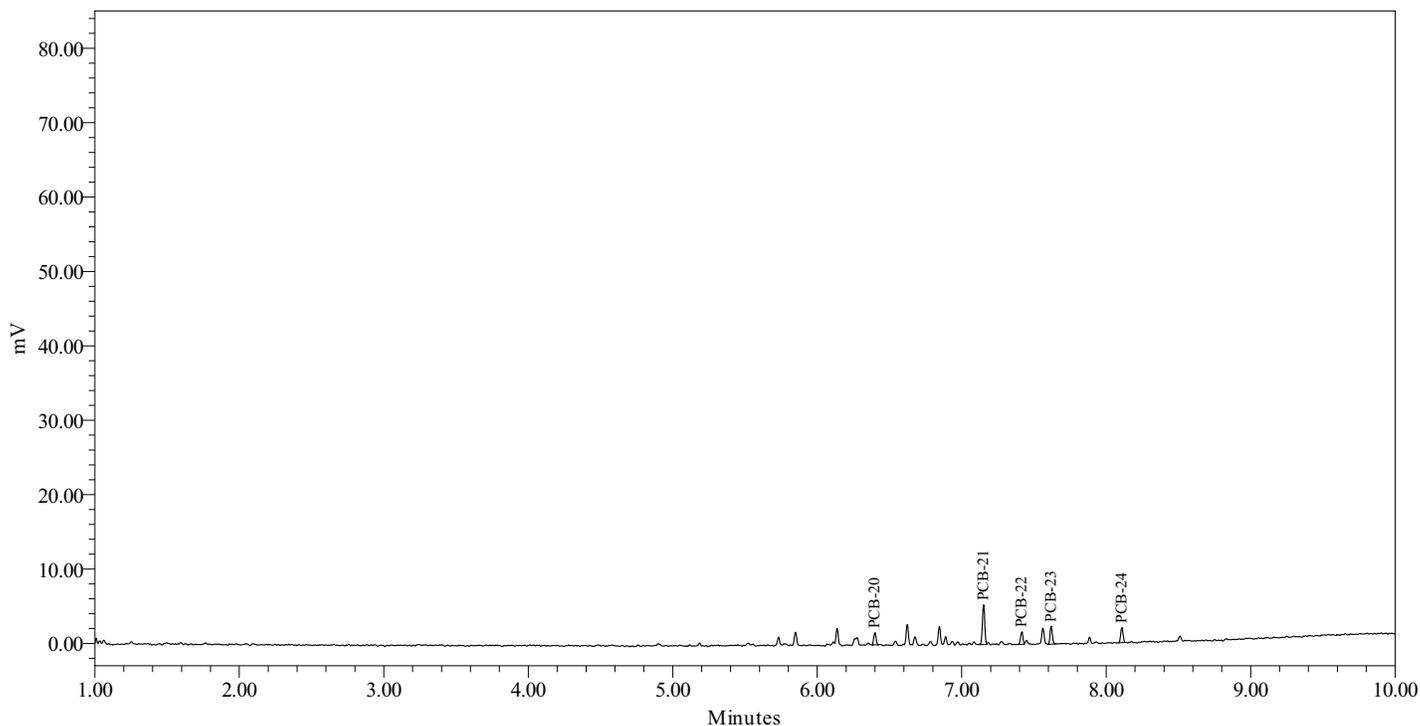
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:17:01 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:22 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:08 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-39 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-20  | 6.399          | bb               | 1780          |
| 2 PCB-21  | 7.151          | bV               | 6127          |
| 3 PCB-22  | 7.416          | bV               | 1857          |
| 4 PCB-23  | 7.619          | bb               | 2674          |
| 5 PCB-24  | 8.108          | bb               | 2303          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1254       | 1780                |                      |
| 2 A1254-17/18 | 1780                |                      |
| 3 A1260       | 14741               |                      |
| 4 A1260-20    | 12961               |                      |
| 5 A1260-23/24 | 9764                |                      |
| 6 A1262       | 14741               | 10.000               |
| 7 A1268       | 4976                |                      |



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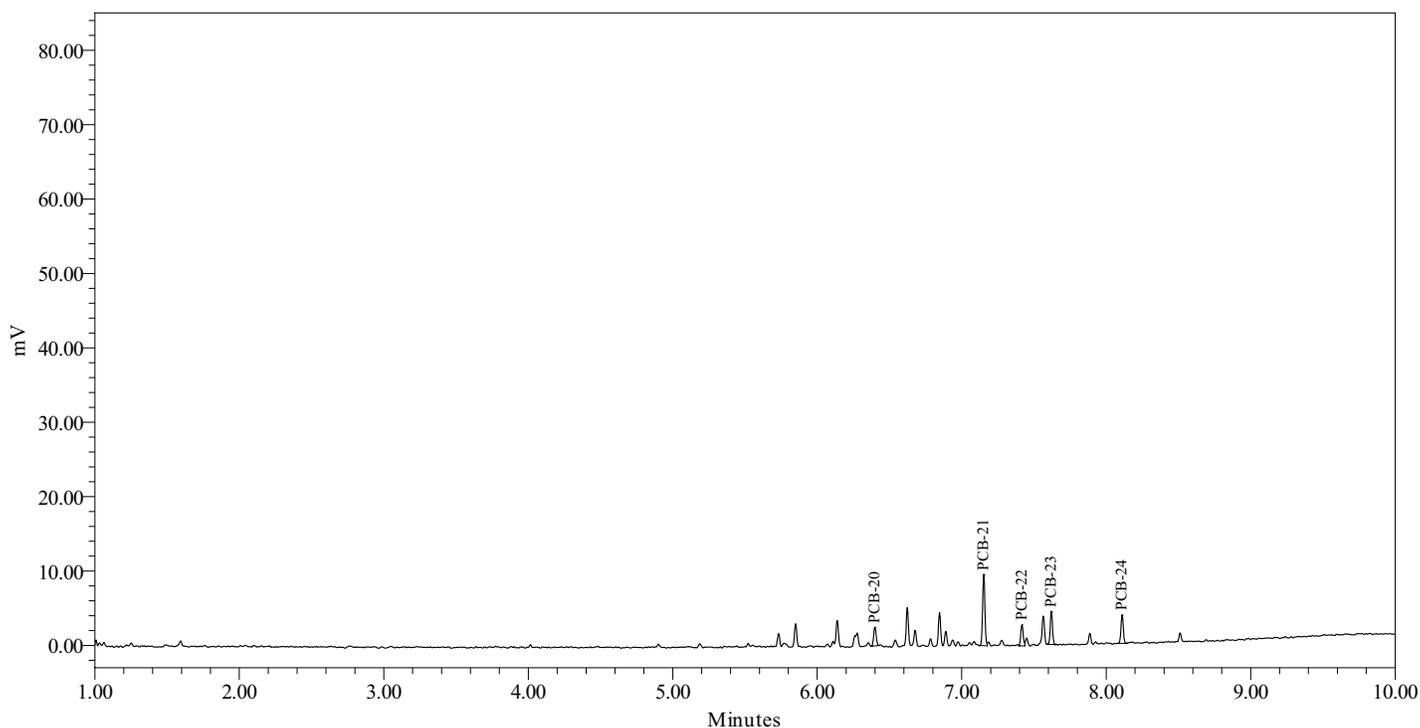
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:30:47 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:19:53 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:25 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-40 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.399          | bb               | 3024          |
| 2 | PCB-21    | 7.152          | bV               | 10840         |
| 3 | PCB-22    | 7.417          | bV               | 3229          |
| 4 | PCB-23    | 7.621          | bb               | 4864          |
| 5 | PCB-24    | 8.110          | bb               | 4345          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 3024                |                      |
| 2 | A1254-17/18 | 3024                |                      |
| 3 | A1260       | 26302               |                      |
| 4 | A1260-20    | 23278               |                      |
| 5 | A1260-23/24 | 17092               |                      |
| 6 | A1262       | 26302               | 20.000               |
| 7 | A1268       | 9210                |                      |



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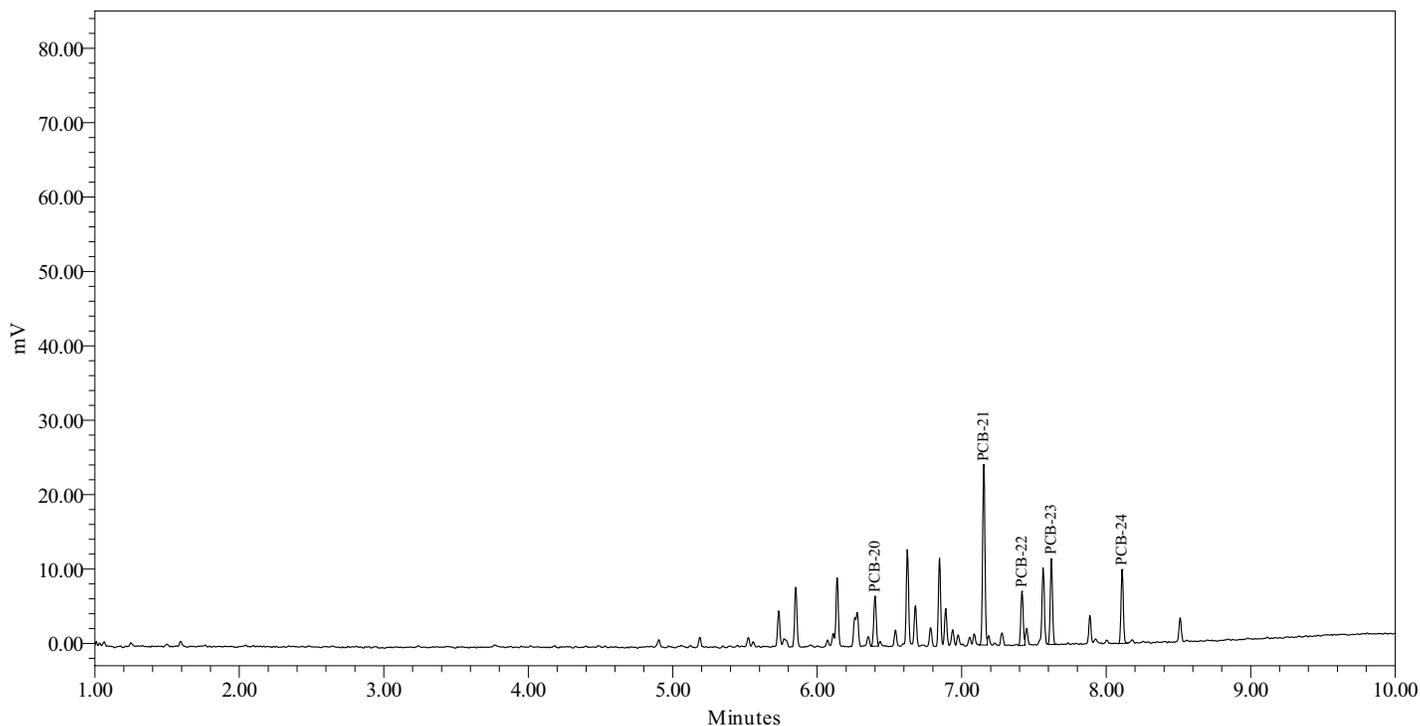
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:44:17 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:23:10 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:43 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-41 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.400          | bV               | 8189          |
| 2 | PCB-21    | 7.153          | bV               | 27871         |
| 3 | PCB-22    | 7.417          | bV               | 8140          |
| 4 | PCB-23    | 7.621          | bb               | 12727         |
| 5 | PCB-24    | 8.110          | bb               | 11028         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 8189                |                      |
| 2 | A1254-17/18 | 8189                |                      |
| 3 | A1260       | 67955               |                      |
| 4 | A1260-20    | 59766               |                      |
| 5 | A1260-23/24 | 44200               |                      |
| 6 | A1262       | 67955               | 50.000               |
| 7 | A1268       | 23755               |                      |



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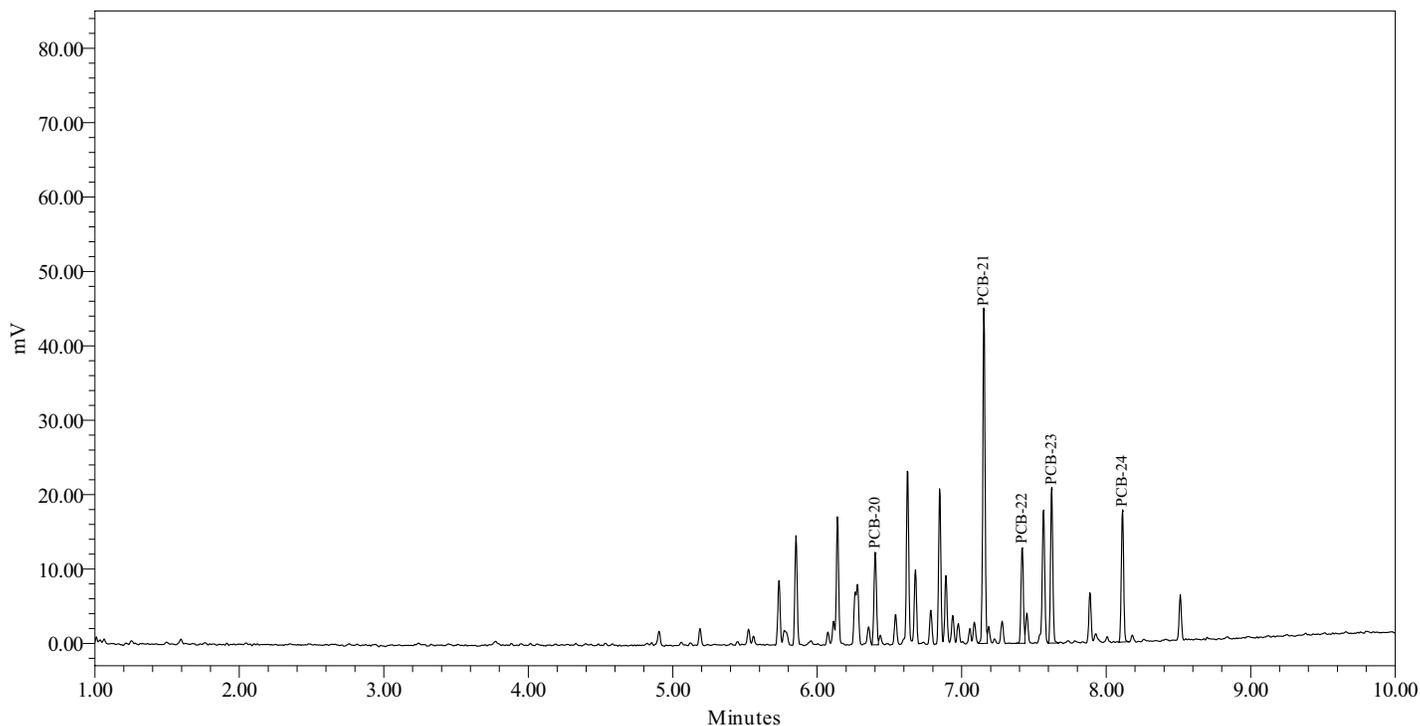
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031262E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1262 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 10:58:33 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:22:47 AM EDT |
| Sample Set Name:   | G 28F LL 031215           | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | G 28F LL 031215           | urrent Date:    | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:47:57 AM US/Eastern   |
| Report Name:       | alStd rpt plt             | LIMS File ID:   | G 28F-1565-42 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-20    | 6.401          | VV               | 15030         |
| 2 | PCB-21    | 7.154          | bV               | 49811         |
| 3 | PCB-22    | 7.418          | bV               | 14396         |
| 4 | PCB-23    | 7.623          | bb               | 23269         |
| 5 | PCB-24    | 8.113          | bb               | 20062         |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1254       | 15030               |                      |
| 2 | A1254-17/18 | 15030               |                      |
| 3 | A1260       | 122569              |                      |
| 4 | A1260-20    | 107540              |                      |
| 5 | A1260-23/24 | 79237               |                      |
| 6 | A1262       | 122569              | 100.000              |
| 7 | A1268       | 43332               |                      |



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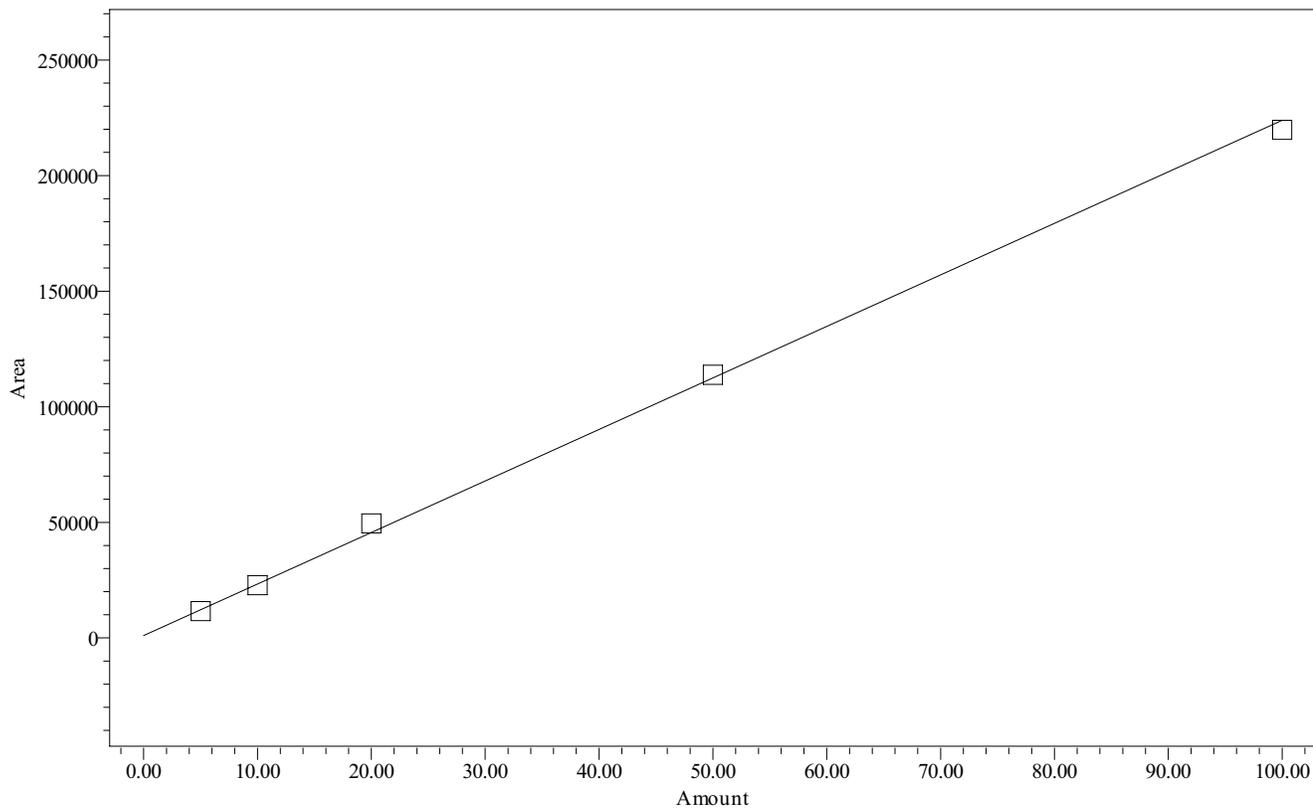
System Name: Instrument\_28\_Ch01 Date Calibrated: 3/13/2015 8:27:00 AM EDT  
Sample Set Name: GC28F\_LLCC\_031215 Method Report: CCSum by RF 02  
Sample Set Date: 3/12/2015 11:57:41 AM EDT User Name: Angela Racine (AngelaR)  
Processing Method: GC28F\_LLCC\_031215

Calibration Component Summary Table  
Component Summary For RF

|           | Sample Name | A 1268    | A 1268-23/24 |
|-----------|-------------|-----------|--------------|
| 1         | 031268A     | 2310.2768 | 1362.1525    |
| 2         | 031268B     | 2277.3915 | 1370.7754    |
| 3         | 031268C     | 2475.6188 | 1463.7598    |
| 4         | 031268D     | 2277.1330 | 1356.7050    |
| 5         | 031268E     | 2197.8075 | 1306.0591    |
| Mean      |             | 2307.646  | 1371.890     |
| Std. Dev. |             | 102.631   | 57.229       |
| % RSD     |             | 4.45      | 4.17         |

|                    |                          |   |             |
|--------------------|--------------------------|---|-------------|
| Name:              | A1268                    | Coefficient constant A:                       | 1041.870793 |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:                    | 2228.463337 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:                    | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:                    | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:                    | 0.999090    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R <sup>2</sup> : | 0.998181    |

Calibration Curve



Point Table  
Peak: A1268

|   | Name   | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268 | 5.00       | 11551    | 4.7         | -5.679      | No     | No     |
| 2 | A 1268 | 10.00      | 22774    | 9.8         | -2.480      | No     | No     |
| 3 | A 1268 | 20.00      | 49512    | 21.8        | 8.753       | No     | No     |
| 4 | A 1268 | 50.00      | 113857   | 50.6        | 1.249       | No     | No     |
| 5 | A 1268 | 100.00     | 219781   | 98.2        | -1.843      | No     | No     |

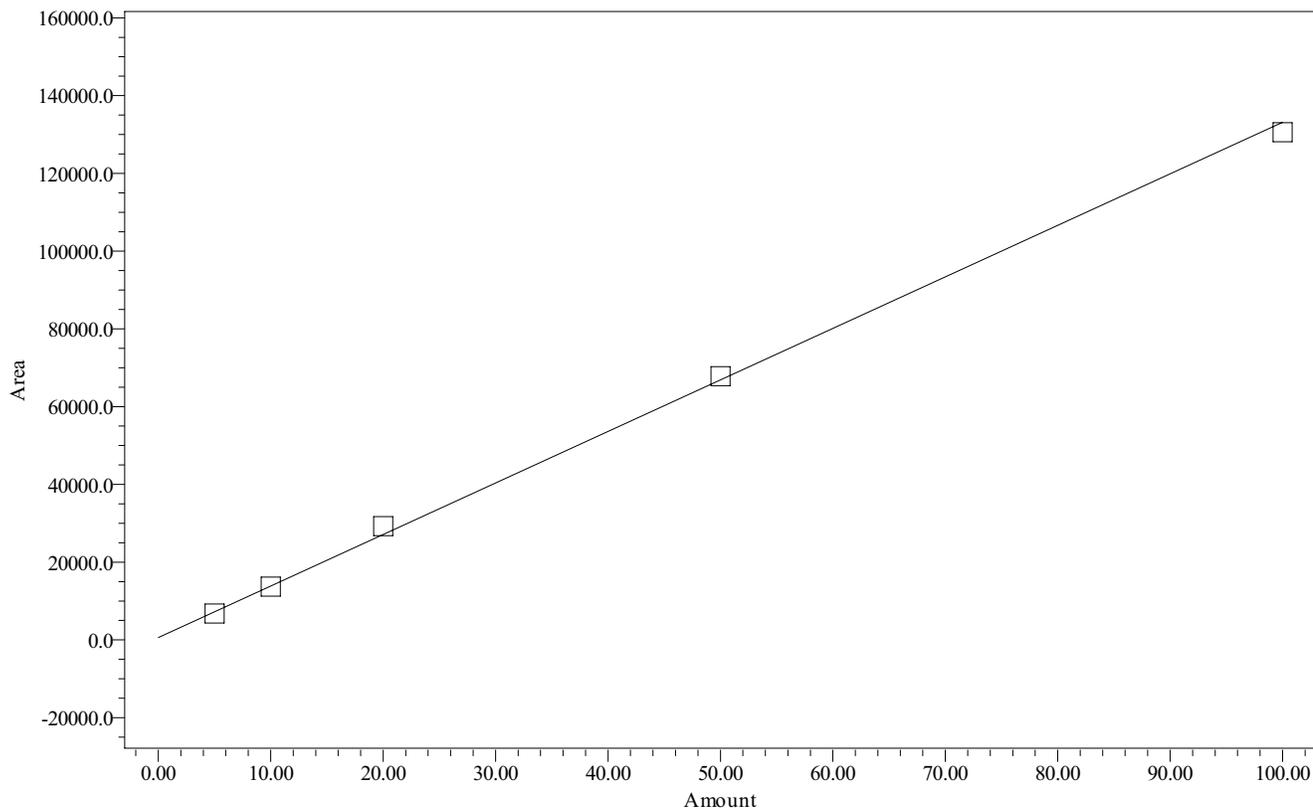
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|                    |                          |                                   |             |
|--------------------|--------------------------|-----------------------------------|-------------|
| Name:              | A1268-23/24              | Coefficient constant A:           | 614.221032  |
| System Name:       | Instrument_28_Ch01       | Coefficient first Order B:        | 1325.209564 |
| Date Calibrated:   | 3/13/2015 8:27:00 AM EDT | Coefficient first Order C:        | 0.000000    |
| Processing Method: | GC28F_LLCC_031215        | Coefficient first Order D:        | 0.000000    |
| Fit Type:          | Linear (1st Order)       | Correlation coefficient R:        | 0.999155    |
| Method Report:     | CCurve_Rpt               | Coefficient of determination R^2: | 0.998310    |

Calibration Curve



Point Table  
Peak: A1268-23/24

|   | Name         | Amount PPB | Response | Calc. Value | % Deviation | Manual | Ignore |
|---|--------------|------------|----------|-------------|-------------|--------|--------|
| 1 | A 1268-23/24 | 5.00       | 6811     | 4.7         | -6.482      | No     | No     |
| 2 | A 1268-23/24 | 10.00      | 13708    | 9.9         | -1.197      | No     | No     |
| 3 | A 1268-23/24 | 20.00      | 29275    | 21.6        | 8.138       | No     | No     |
| 4 | A 1268-23/24 | 50.00      | 67835    | 50.7        | 1.450       | No     | No     |
| 5 | A 1268-23/24 | 100.00     | 130606   | 98.1        | -1.909      | No     | No     |

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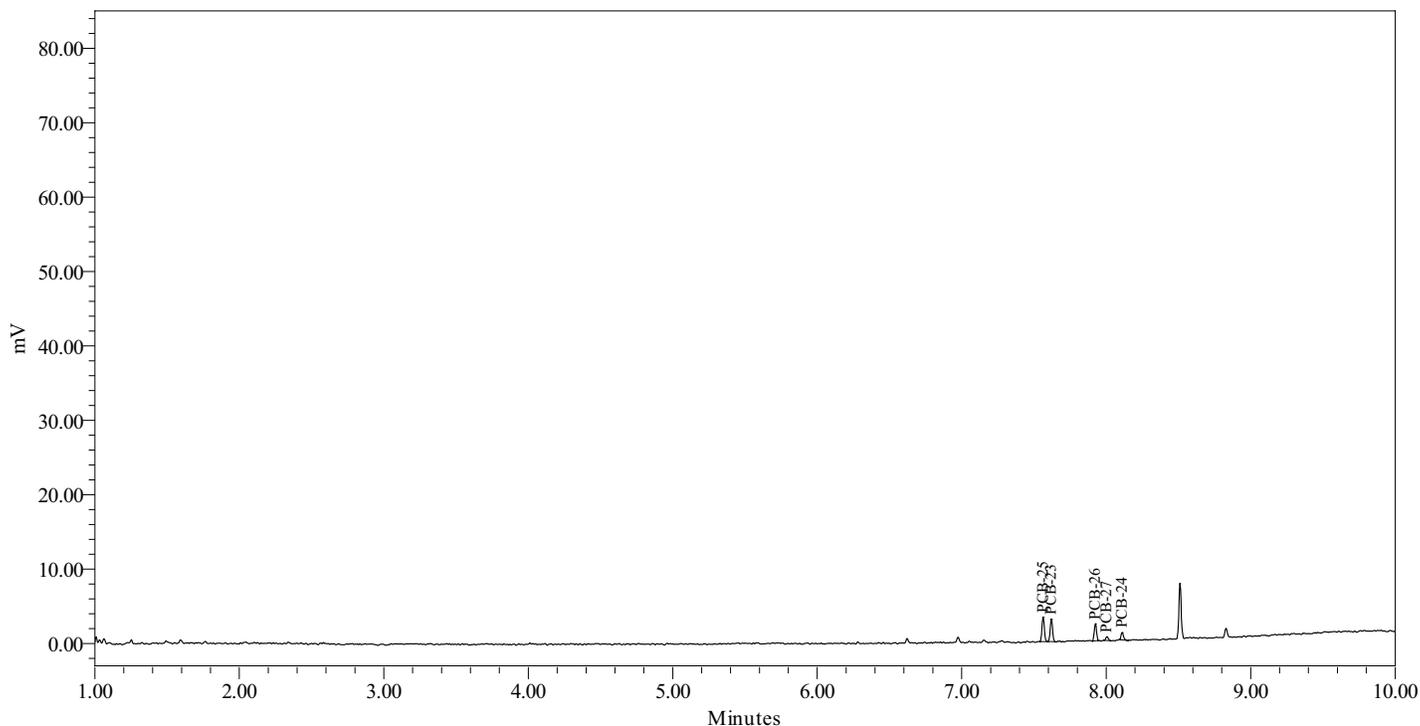
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268A                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 5 PPB               | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:12:19 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:41 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:19 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-43 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|---|-----------|----------------|------------------|---------------|
| 1 | PCB-25    | 7.564          | bV               | 3694          |
| 2 | PCB-23    | 7.621          | Vb               | 3546          |
| 3 | PCB-26    | 7.926          | bb               | 2543          |
| 4 | PCB-27    | 8.005          | bb               | 574           |
| 5 | PCB-24    | 8.110          | bb               | 1194          |

**Group Results**

|   | Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL |
|---|-------------|---------------------|----------------------|
| 1 | A1260       | 4741                |                      |
| 2 | A1260-20    | 4741                |                      |
| 3 | A1262       | 4741                |                      |
| 4 | A1268       | 11551               | 5.000                |
| 5 | A1268-23/24 | 6811                | 5.000                |



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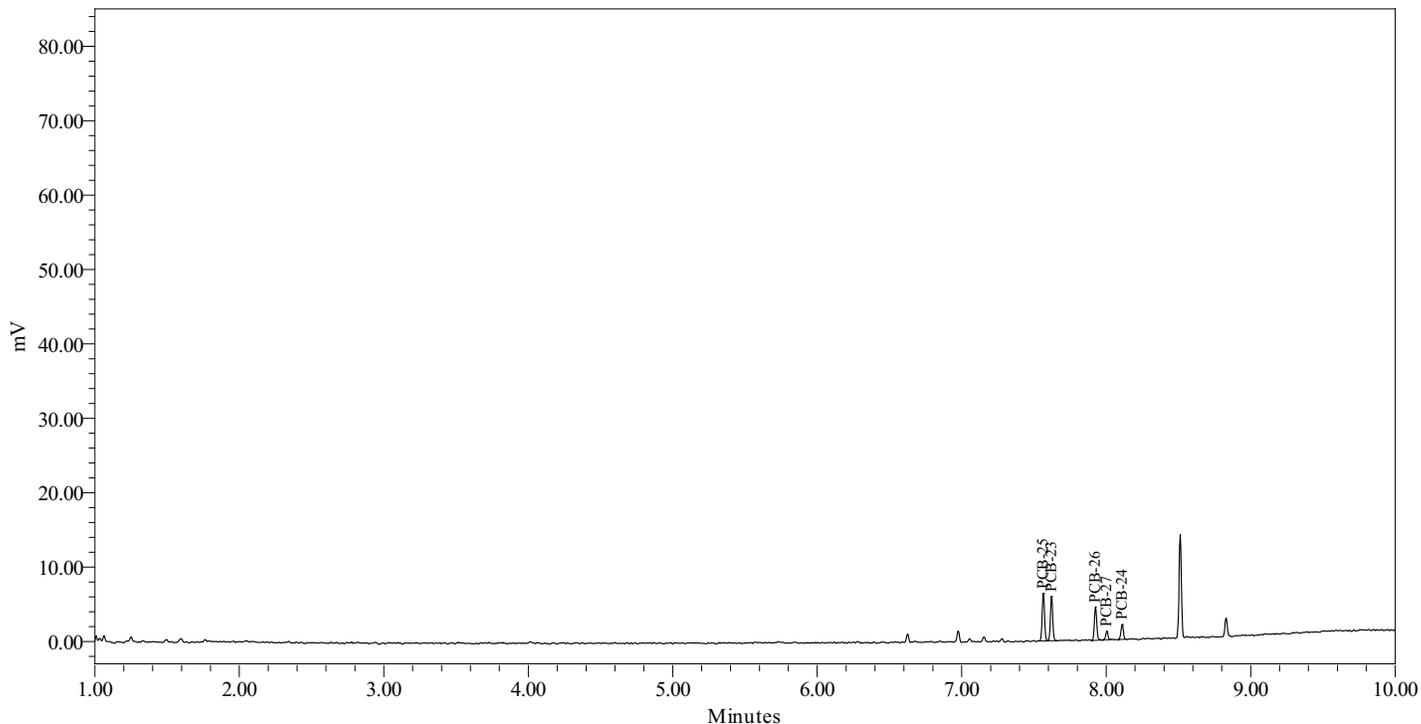
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268B                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 10 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:26:09 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:25:59 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:34 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-44 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.565          | bV               | 7178          |
| 2 PCB-23  | 7.622          | Vb               | 6734          |
| 3 PCB-26  | 7.926          | bB               | 5273          |
| 4 PCB-27  | 8.004          | Bb               | 1257          |
| 5 PCB-24  | 8.111          | bb               | 2332          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 9066                |                      |
| 2 A1260-20    | 9066                |                      |
| 3 A1262       | 9066                |                      |
| 4 A1268       | 22774               | 10.000               |
| 5 A1268-23/24 | 13708               | 10.000               |



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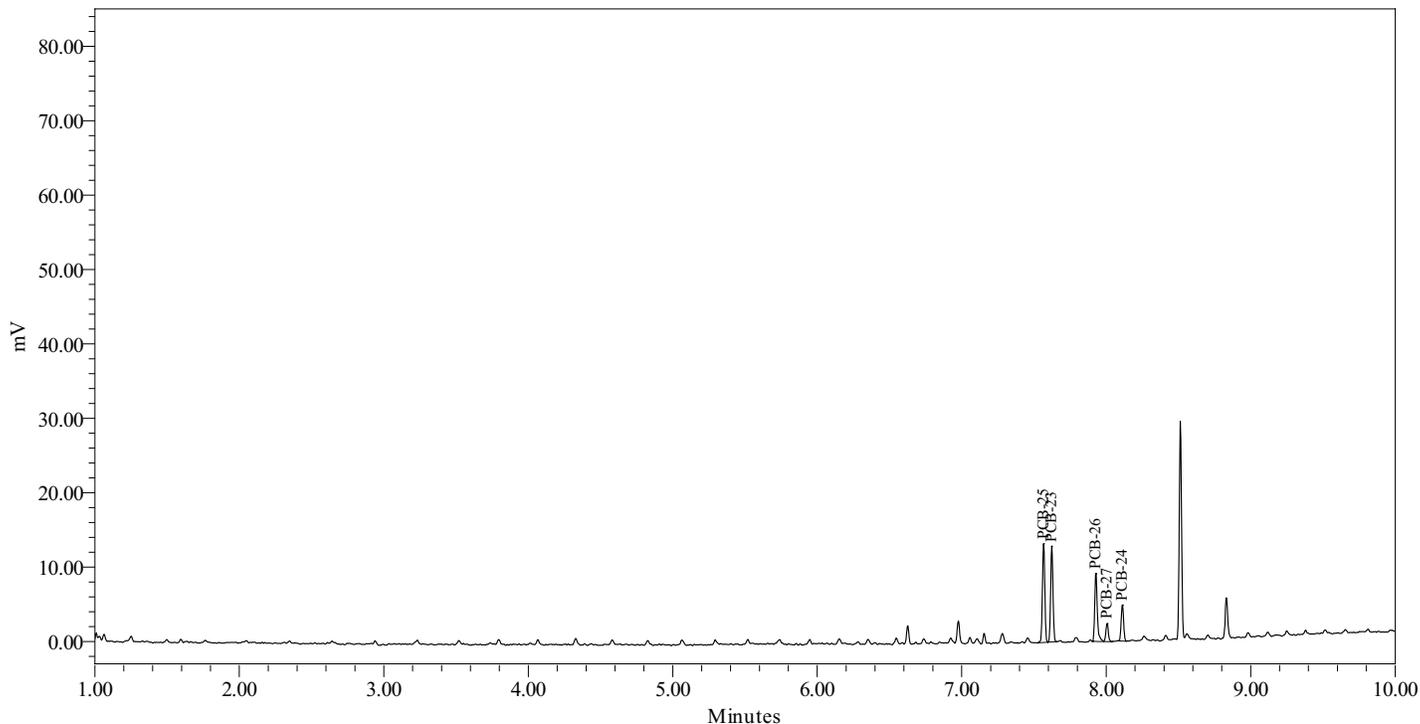
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268C                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 20 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:40:16 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:48:53 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-45 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.567          | bV               | 15006         |
| 2 PCB-23  | 7.624          | Vb               | 14502         |
| 3 PCB-26  | 7.929          | bV               | 11387         |
| 4 PCB-27  | 8.006          | Vb               | 2883          |
| 5 PCB-24  | 8.112          | bb               | 5736          |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 20237               |                      |
| 2 A1260-20    | 20237               |                      |
| 3 A1262       | 20237               |                      |
| 4 A1268       | 49512               | 20.000               |
| 5 A1268-23/24 | 29275               | 20.000               |



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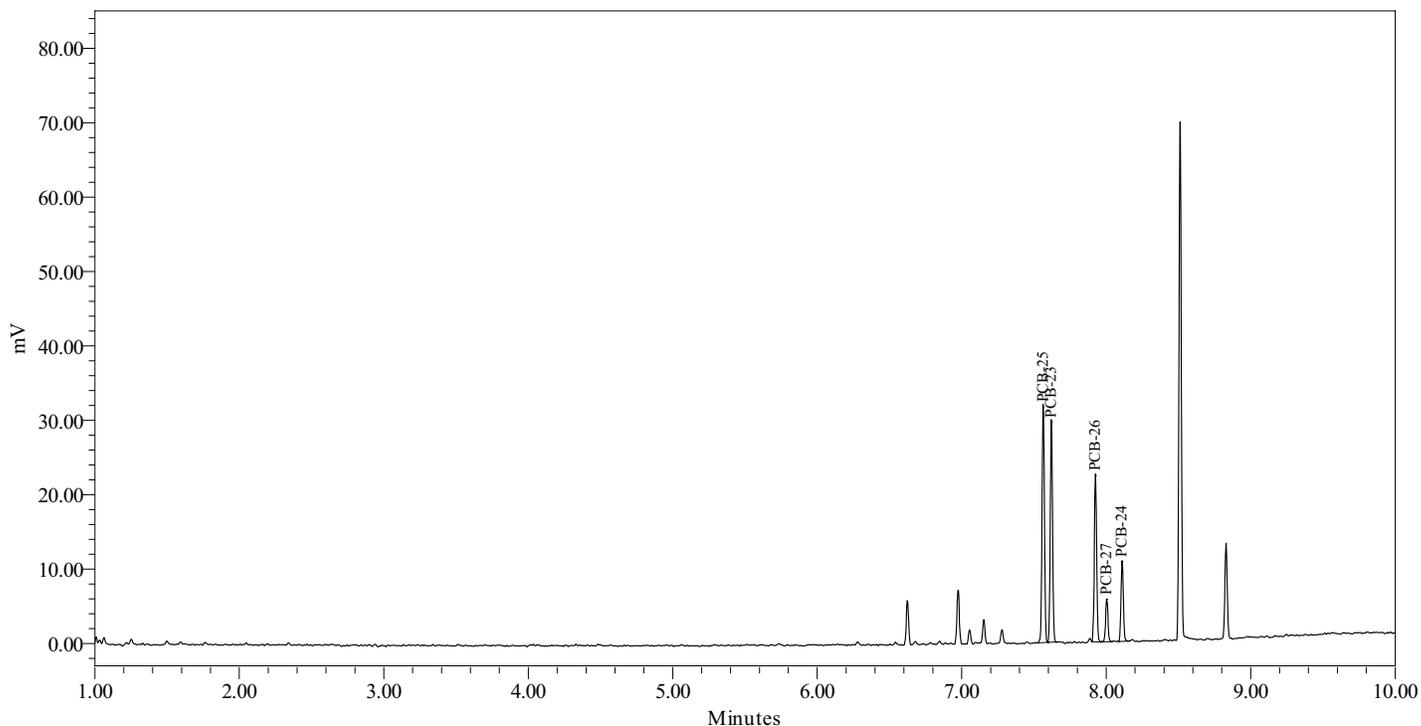
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|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268D                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/12/2015 11:54:28 PM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:32 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:09 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-46 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bB               | 35986         |
| 2 PCB-23  | 7.621          | Bb               | 33618         |
| 3 PCB-26  | 7.926          | bB               | 25397         |
| 4 PCB-27  | 8.004          | Bb               | 6452          |
| 5 PCB-24  | 8.110          | bb               | 12404         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 46021               |                      |
| 2 A1260-20    | 46021               |                      |
| 3 A1262       | 46021               |                      |
| 4 A1268       | 113857              | 50.000               |
| 5 A1268-23/24 | 67835               | 50.000               |



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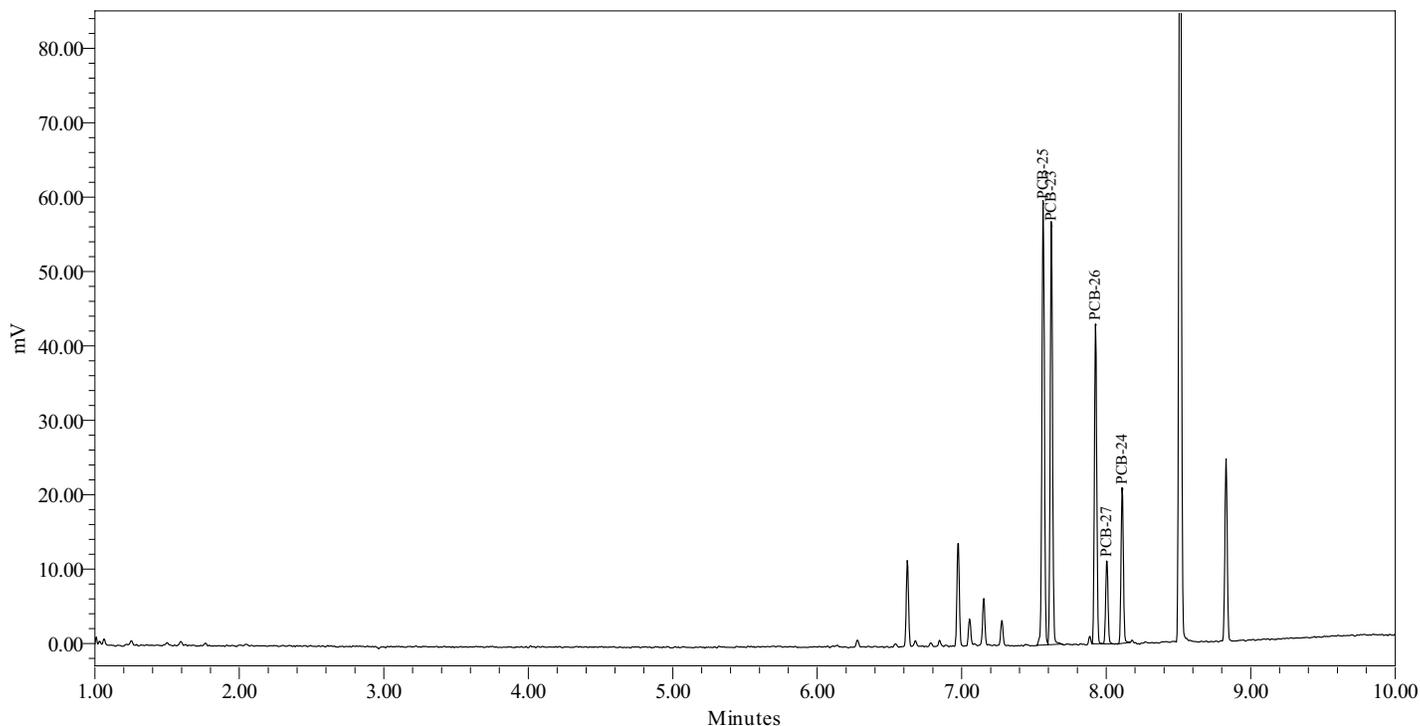
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | 031268E                   | Sample Amount:  | 1                        |
| Sample ID:         | A1268 100 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:08:35 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:26:51 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:49:27 AM US/Eastern   |
| Report Name:       | CalStd rpt plt            | LIMS File ID:   | GC28F-1565-47 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) |
|-----------|----------------|------------------|---------------|
| 1 PCB-25  | 7.564          | bV               | 69443         |
| 2 PCB-23  | 7.621          | Vb               | 65421         |
| 3 PCB-26  | 7.927          | bb               | 48601         |
| 4 PCB-27  | 8.004          | bb               | 12562         |
| 5 PCB-24  | 8.111          | bb               | 23754         |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL |
|---------------|---------------------|----------------------|
| 1 A1260       | 89175               |                      |
| 2 A1260-20    | 89175               |                      |
| 3 A1262       | 89175               |                      |
| 4 A1268       | 219781              | 100.000              |
| 5 A1268-23/24 | 130606              | 100.000              |



11

# INITIAL/CONTINUING CALIBRATION DATA (GC28F)

7E-1  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SDG NO: 15060189

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | CALC AMOUNT (ng/mL) | NOM AMOUNT (ng/mL) | PERCENT DIFFERENCE | Q | DATE / TIME ANALYZED |
|--------------|---------------|---------------|------------|---------------------|--------------------|--------------------|---|----------------------|
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 50.9                | 50                 | 1.89               |   | 03/13/2015 00:36:30  |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 47.1                | 50                 | -5.76              |   | 03/13/2015 00:50:17  |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 47.0                | 50                 | -5.97              |   | 03/13/2015 01:04:04  |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 52.2                | 50                 | 4.47               |   | 03/13/2015 01:17:52  |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 52.0                | 50                 | 4.00               |   | 03/13/2015 01:31:59  |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 52.7                | 50                 | 5.30               |   | 03/13/2015 01:45:56  |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 52.5                | 50                 | 5.01               |   | 03/13/2015 01:59:41  |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 49.2                | 50                 | -1.62              |   | 03/13/2015 02:13:43  |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV        | 52.0                | 50                 | 3.98               |   | 03/13/2015 02:27:53  |
| Aroclor 1232 | GC28F-1637-3  | CS320608A     | CCV        | 48.6                | 50                 | -2.82              |   | 06/08/2015 07:55:16  |
| Aroclor 1242 | GC28F-1637-11 | CS420608A     | CCV        | 55.3                | 50                 | 10.6               |   | 06/08/2015 10:06:15  |
| Aroclor 1248 | GC28F-1637-14 | CS480608A     | CCV        | 51.6                | 50                 | 3.25               |   | 06/08/2015 11:34:22  |

% Difference must be less than or equal to +/- 15.0 percent.

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060189

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|------------|------|------|-----------|------|
|              |               |               |            |      |      | FROM      | TO   |
| Aroclor 1016 | GC28F-1565-49 | CS160312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS160312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS160312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS160312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS160312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1221 | GC28F-1565-50 | CS210312A     | ICV        | 1    | 1.70 | 1.62      | 1.78 |
|              |               | CS210312A     | ICV        | 2    | 2.30 | 2.22      | 2.38 |
|              |               | CS210312A     | ICV        | 3    | 2.59 | 2.51      | 2.67 |
|              |               | CS210312A     | ICV        | 4    | 2.69 | 2.61      | 2.77 |
|              |               | CS210312A     | ICV        | 5    | 2.76 | 2.68      | 2.84 |
| Aroclor 1232 | GC28F-1565-51 | CS320312A     | ICV        | 1    | 2.76 | 2.68      | 2.84 |
|              |               | CS320312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS320312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS320312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS320312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1565-52 | CS420312A     | ICV        | 1    | 3.24 | 3.16      | 3.32 |
|              |               | CS420312A     | ICV        | 2    | 3.45 | 3.37      | 3.53 |
|              |               | CS420312A     | ICV        | 3    | 3.77 | 3.69      | 3.85 |
|              |               | CS420312A     | ICV        | 4    | 3.88 | 3.80      | 3.96 |
|              |               | CS420312A     | ICV        | 5    | 3.95 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1565-53 | CS480312A     | ICV        | 1    | 4.23 | 4.15      | 4.31 |
|              |               | CS480312A     | ICV        | 2    | 4.53 | 4.45      | 4.61 |
|              |               | CS480312A     | ICV        | 3    | 4.82 | 4.74      | 4.90 |
|              |               | CS480312A     | ICV        | 4    | 4.89 | 4.81      | 4.97 |
|              |               | CS480312A     | ICV        | 5    | 5.05 | 4.97      | 5.13 |
| Aroclor 1254 | GC28F-1565-54 | CS540312A     | ICV        | 1    | 5.19 | 5.11      | 5.27 |
|              |               | CS540312A     | ICV        | 2    | 5.45 | 5.37      | 5.53 |
|              |               | CS540312A     | ICV        | 3    | 5.56 | 5.48      | 5.64 |
|              |               | CS540312A     | ICV        | 4    | 6.11 | 6.03      | 6.19 |
|              |               | CS540312A     | ICV        | 5    | 6.40 | 6.32      | 6.48 |
| Aroclor 1260 | GC28F-1565-55 | CS600312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS600312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS600312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |
|              |               | CS600312A     | ICV        | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS600312A     | ICV        | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1262 | GC28F-1565-56 | CS620312A     | ICV        | 1    | 6.40 | 6.32      | 6.48 |
|              |               | CS620312A     | ICV        | 2    | 7.15 | 7.07      | 7.23 |
|              |               | CS620312A     | ICV        | 3    | 7.42 | 7.34      | 7.50 |

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060189

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1262 |               | CS620312A     | ICV         | 4    | 7.62 | 7.54      | 7.70 |
|              |               | CS620312A     | ICV         | 5    | 8.11 | 8.03      | 8.19 |
| Aroclor 1268 | GC28F-1565-57 | CS680312A     | ICV         | 1    | 7.62 | 7.54      | 7.70 |
|              |               | CS680312A     | ICV         | 2    | 8.11 | 8.03      | 8.19 |
|              |               | CS680312A     | ICV         | 3    | 7.56 | 7.48      | 7.64 |
|              |               | CS680312A     | ICV         | 4    | 7.93 | 7.85      | 8.01 |
|              |               | CS680312A     | ICV         | 5    | 8.00 | 7.92      | 8.08 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

7E-2  
PCB CALIBRATION VERIFICATION SUMMARY

Laboratory Name: Pace Analytical Services, Inc.  
 ELAP ID No: 11078  
 Instrument ID: GC28F  
 GC Column: Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm

SGD NO: 15060189

| COMPOUND     | LAB FILE ID   | LAB SAMPLE ID | CALIB TYPE* | PEAK | RT   | RT WINDOW |      |
|--------------|---------------|---------------|-------------|------|------|-----------|------|
|              |               |               |             |      |      | FROM      | TO   |
| Aroclor 1232 | GC28F-1637-3  | CS320608A     | CCV         | 1    | 2.75 | 2.68      | 2.84 |
|              |               | CS320608A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS320608A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS320608A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS320608A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1242 | GC28F-1637-11 | CS420608A     | CCV         | 1    | 3.23 | 3.16      | 3.32 |
|              |               | CS420608A     | CCV         | 2    | 3.43 | 3.37      | 3.53 |
|              |               | CS420608A     | CCV         | 3    | 3.76 | 3.69      | 3.85 |
|              |               | CS420608A     | CCV         | 4    | 3.87 | 3.80      | 3.96 |
|              |               | CS420608A     | CCV         | 5    | 3.94 | 3.87      | 4.03 |
| Aroclor 1248 | GC28F-1637-14 | CS480608A     | CCV         | 1    | 4.22 | 4.15      | 4.31 |
|              |               | CS480608A     | CCV         | 2    | 4.52 | 4.45      | 4.61 |
|              |               | CS480608A     | CCV         | 3    | 4.80 | 4.74      | 4.90 |
|              |               | CS480608A     | CCV         | 4    | 4.87 | 4.81      | 4.97 |
|              |               | CS480608A     | CCV         | 5    | 5.04 | 4.97      | 5.13 |

\* ICV = Initial Calibration Verification  
 CCV = Continuing Calibration Verification

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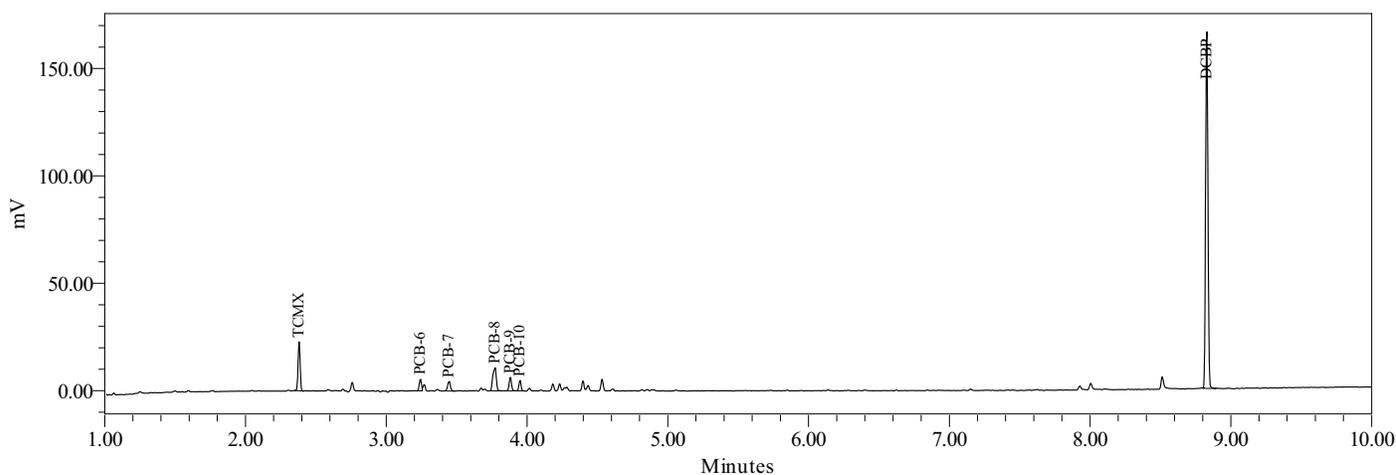
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS160312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1016 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:36:30 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:28:28 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:06 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-49 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 23900         | 4.896                | 97.9        |             |
| 2 PCB-6   | 3.242          | bV               | 5832          |                      |             |             |
| 3 PCB-7   | 3.446          | bb               | 5981          |                      |             |             |
| 4 PCB-8   | 3.772          | bb               | 18573         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 7576          |                      |             |             |
| 6 PCB-10  | 3.950          | Bb               | 5019          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 193649        | 47.250               |             | 94.5        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 42981               | 50.945               | 1.89                | X      |      |
| 2 A 1232     | 37149               | 85.159               | 70.32               |        |      |
| 3 A 1232-8/9 | 11000               | 53.522               | 7.04                |        |      |
| 4 A 1242     | 42981               | 65.192               | 30.38               |        |      |



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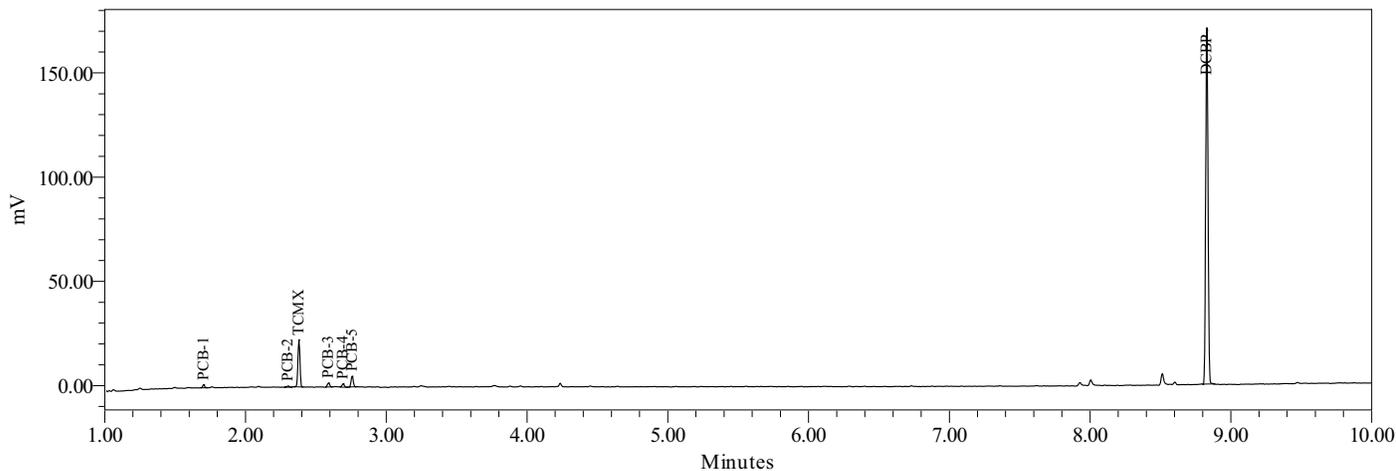
|                    |                           |                 |                          |
|--------------------|---------------------------|-----------------|--------------------------|
| Sample Name:       | CS210312A                 | Sample Amount:  | 1                        |
| Sample ID:         | A1221 50 PPB              | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 12:50:17 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015            | Date Processed: | 3/13/2015 8:29:15 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215         | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215         | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes              | Current Time:   | 10:27:34 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50         | LIMS File ID:   | GC28F-1565-50 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 PCB-1   | 1.703          | bb               | 1470          |                      |             |             |
| 2 PCB-2   | 2.303          | bb               | 747           |                      |             |             |
| 3 TCMX    | 2.380          | bb               | 23152         | 4.740                | 94.8        |             |
| 4 PCB-3   | 2.590          | bb               | 2186          |                      |             |             |
| 5 PCB-4   | 2.694          | bb               | 1880          |                      |             |             |
| 6 PCB-5   | 2.758          | bb               | 5559          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 196526        | 48.002               |             | 96.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1221     | 11842               | 47.120               | -5.76               | X      |      |
| 2 A 1221-2   | 11095               | 46.988               | -6.02               |        |      |
| 3 A 1221-5   | 6283                | 50.212               | 0.42                |        |      |
| 4 A 1232     | 5559                | 12.735               | -74.53              |        |      |
| 5 A 1232-8/9 | 5559                | 26.814               | -46.37              |        |      |



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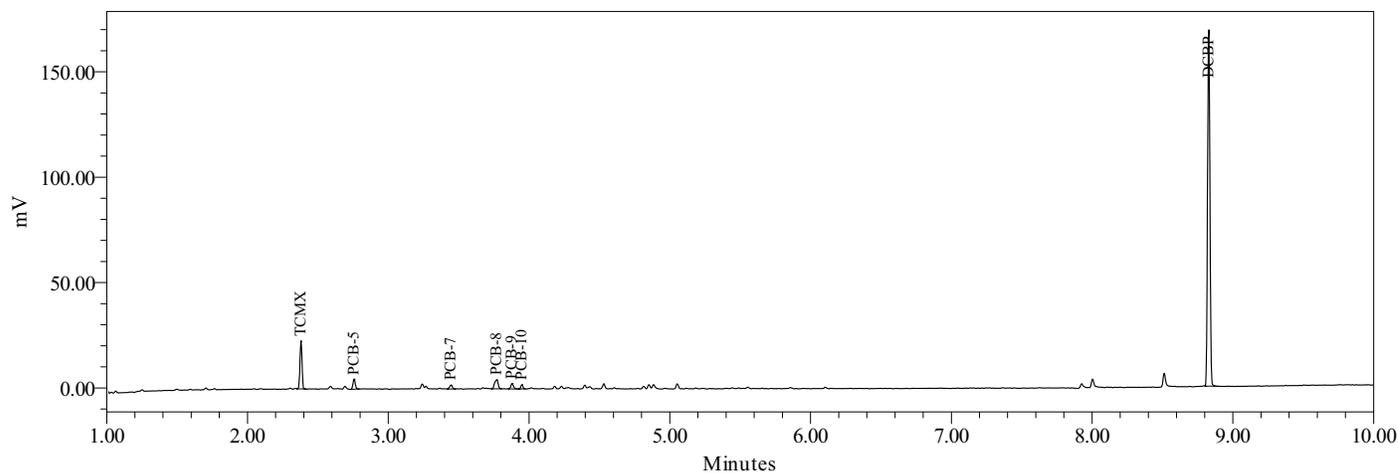
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS320312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1232 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:04:04 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:30:22 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-51 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23442         | 4.800                | 96.0        |             |
| 2 PCB-5   | 2.757          | bb               | 5363          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 2452          |                      |             |             |
| 4 PCB-8   | 3.770          | bb               | 7492          |                      |             |             |
| 5 PCB-9   | 3.880          | bB               | 3240          |                      |             |             |
| 6 PCB-10  | 3.949          | Bb               | 1964          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 197582        | 48.278               |             | 96.6        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 15147               | 17.837               | -64.33              |        |      |
| 2 A 1221     | 5363                | 21.376               | -57.25              |        |      |
| 3 A 1221-2   | 5363                | 23.033               | -53.93              |        |      |
| 4 A 1232     | 20511               | 47.013               | -5.97               | X      |      |
| 5 A 1232-8/9 | 9779                | 47.526               | -4.95               |        |      |
| 6 A 1242     | 15147               | 22.859               | -54.28              |        |      |



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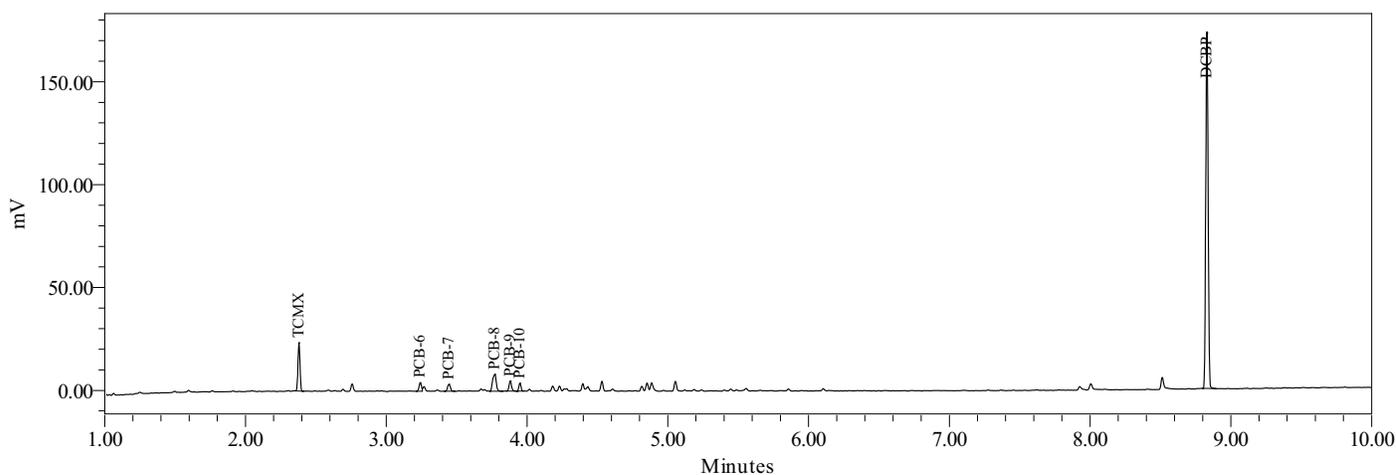
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:17:52 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:07 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:27:55 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-52 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 23838         | 4.883                | 97.7        |             |
| 2 PCB-6   | 3.241          | bV               | 4785          |                      |             |             |
| 3 PCB-7   | 3.445          | bb               | 4667          |                      |             |             |
| 4 PCB-8   | 3.771          | bb               | 14779         |                      |             |             |
| 5 PCB-9   | 3.881          | bB               | 6132          |                      |             |             |
| 6 PCB-10  | 3.950          | bb               | 4098          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 202343        | 49.524               |             | 99.0        |

**Group Results**

| Group Name   | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|--------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1016     | 34461               | 40.810               | -18.38              |        |      |
| 2 A 1232     | 29676               | 68.024               | 36.05               |        |      |
| 3 A 1232-8/9 | 8765                | 42.551               | -14.90              |        |      |
| 4 A 1242     | 34461               | 52.233               | 4.47                | X      |      |



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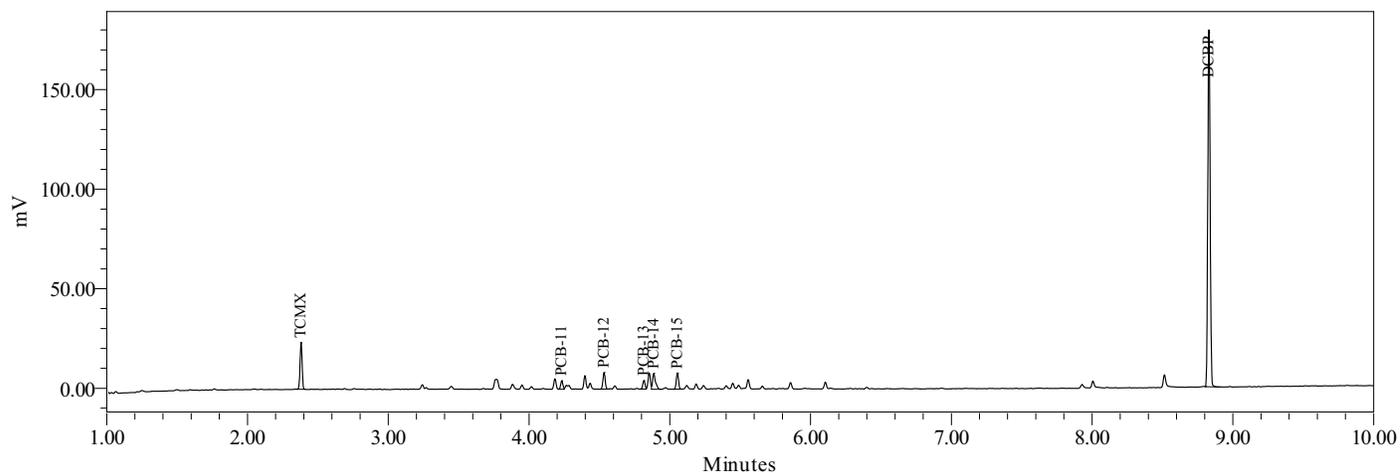
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:31:59 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:31:49 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:15 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-53 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24356         | 4.992                | 99.8        |             |
| 2 PCB-11  | 4.233          | VV               | 4660          |                      |             |             |
| 3 PCB-12  | 4.533          | bb               | 9191          |                      |             |             |
| 4 PCB-13  | 4.816          | bV               | 4715          |                      |             |             |
| 5 PCB-14  | 4.886          | Vb               | 11277         |                      |             |             |
| 6 PCB-15  | 5.054          | bb               | 8970          |                      |             |             |
| 7 DCBP    | 8.830          | bb               | 205259        | 50.286               |             | 100.6       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1248       | 38812               | 52.001               | 4.00                | X      |      |
| 2 A 1248-11/15 | 25182               | 52.381               | 4.76                |        |      |
| 3 A 1248-14/15 | 18566               | 51.829               | 3.66                |        |      |



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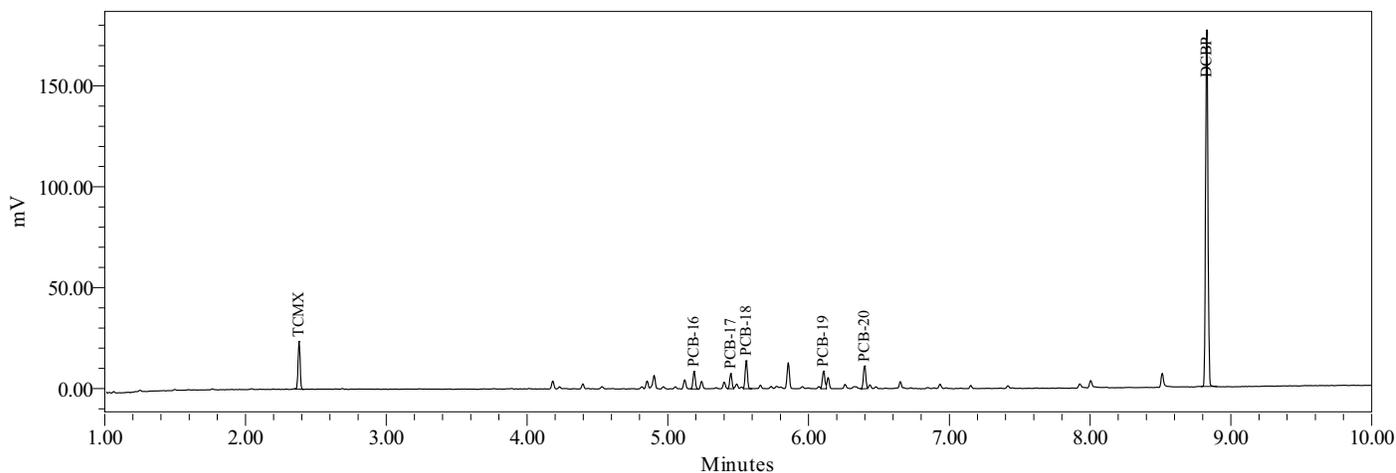
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS540312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1254 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:45:56 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:32:29 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:29 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-54 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24663         | 5.056                | 101.1       |             |
| 2 PCB-16  | 5.187          | bb               | 9902          |                      |             |             |
| 3 PCB-17  | 5.448          | VV               | 8374          |                      |             |             |
| 4 PCB-18  | 5.558          | Vb               | 15500         |                      |             |             |
| 5 PCB-19  | 6.107          | VV               | 10948         |                      |             |             |
| 6 PCB-20  | 6.398          | bV               | 13536         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 206310        | 50.562               |             | 101.1       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 58260               | 52.651               | 5.30                | X      |      |
| 2 A 1254-17/18 | 34386               | 53.400               | 6.80                |        |      |
| 3 A 1254-19/20 | 33777               | 52.134               | 4.27                |        |      |
| 4 A 1254-20    | 44724               | 52.527               | 5.05                |        |      |
| 5 A 1260       | 13536               | 10.983               | -78.03              |        |      |
| 6 A 1260-23/24 | 13536               | 14.027               | -71.95              |        |      |
| 7 A 1262       | 13536               | 9.965                | -80.07              |        |      |



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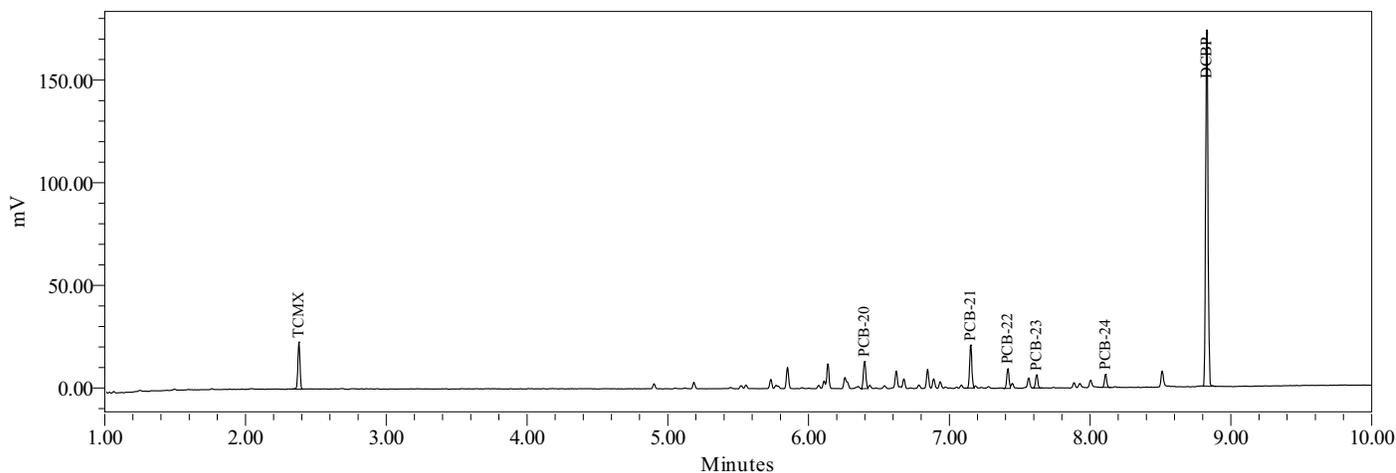
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS600312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1260 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 1:59:41 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:14 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:44 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-55 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24369         | 4.994                | 99.9        |             |
| 2 PCB-20  | 6.398          | bV               | 16108         |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 23469         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 10472         |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 7126          |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 6999          |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 200949        | 49.159               |             | 98.3        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 16108               | 14.753               | -70.49              |        |      |
| 2 A 1254-17/18 | 16108               | 25.200               | -49.60              |        |      |
| 3 A 1260       | 64174               | 52.503               | 5.01                | X      |      |
| 4 A 1260-20    | 48066               | 55.171               | 10.34               |        |      |
| 5 A 1260-23/24 | 50049               | 50.663               | 1.33                |        |      |
| 6 A 1262       | 64174               | 50.140               | 0.28                |        |      |
| 7 A 1268       | 14125               | 5.871                | -88.26              |        |      |



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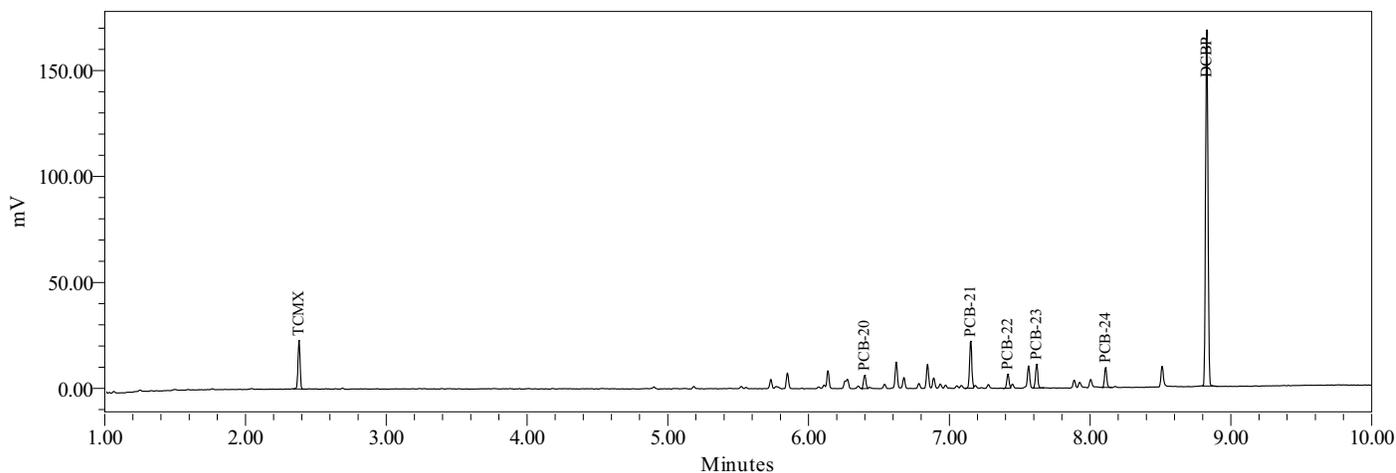
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS620312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1262 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:13:43 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:33:57 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:28:59 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-56 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.380          | bb               | 24105         | 4.939                | 98.8        |             |
| 2 PCB-20  | 6.399          | bV               | 7418          |                      |             |             |
| 3 PCB-21  | 7.152          | bV               | 25159         |                      |             |             |
| 4 PCB-22  | 7.416          | bV               | 7451          |                      |             |             |
| 5 PCB-23  | 7.621          | bb               | 12579         |                      |             |             |
| 6 PCB-24  | 8.110          | bb               | 10373         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 201030        | 49.180               |             | 98.4        |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1254       | 7418                | 6.940                | -86.12              |        |      |
| 2 A 1254-17/18 | 7418                | 11.791               | -76.42              |        |      |
| 3 A 1260       | 62980               | 51.523               | 3.05                |        |      |
| 4 A 1260-20    | 55562               | 63.820               | 27.64               |        |      |
| 5 A 1260-23/24 | 40028               | 40.608               | -18.78              |        |      |
| 6 A 1262       | 62980               | 49.192               | -1.62               | X      |      |
| 7 A 1268       | 22952               | 9.832                | -80.34              |        |      |



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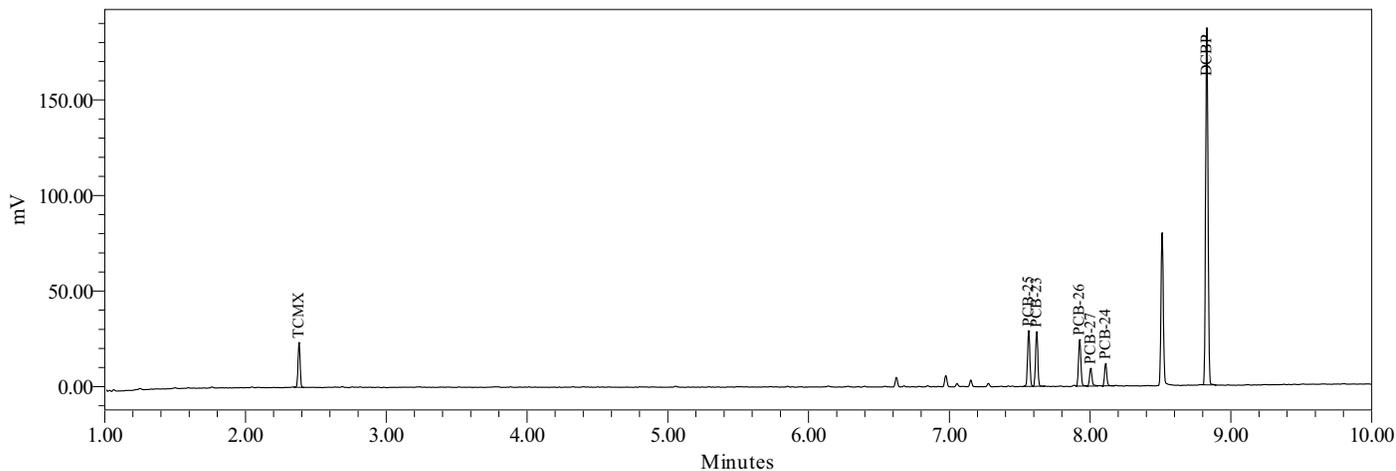
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|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS680312A                | Sample Amount:  | 1                        |
| Sample ID:         | A1268 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:27:53 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:34:44 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:29:10 AM US/Eastern   |
| Report Name:       | ChkStd Rpt Plt 50        | LIMS File ID:   | GC28F-1565-57 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.381          | bb               | 24455         | 5.012                | 100.2       |             |
| 2 PCB-25  | 7.564          | bV               | 32989         |                      |             |             |
| 3 PCB-23  | 7.621          | Vb               | 31784         |                      |             |             |
| 4 PCB-26  | 7.926          | bV               | 27978         |                      |             |             |
| 5 PCB-27  | 8.005          | VV               | 11110         |                      |             |             |
| 6 PCB-24  | 8.111          | bb               | 13043         |                      |             |             |
| 7 DCBP    | 8.829          | bb               | 219224        | 53.940               |             | 107.9       |

**Group Results**

| Group Name     | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|----------------|---------------------|----------------------|---------------------|--------|------|
| 1 A 1260       | 44827               | 36.639               | -26.72              |        |      |
| 2 A 1260-20    | 44827               | 51.435               | 2.87                |        |      |
| 3 A 1262       | 44827               | 34.790               | -30.42              |        |      |
| 4 A 1268       | 116904              | 51.992               | 3.98                | X      |      |
| 5 A 1268-23/24 | 72078               | 53.926               | 7.85                |        |      |



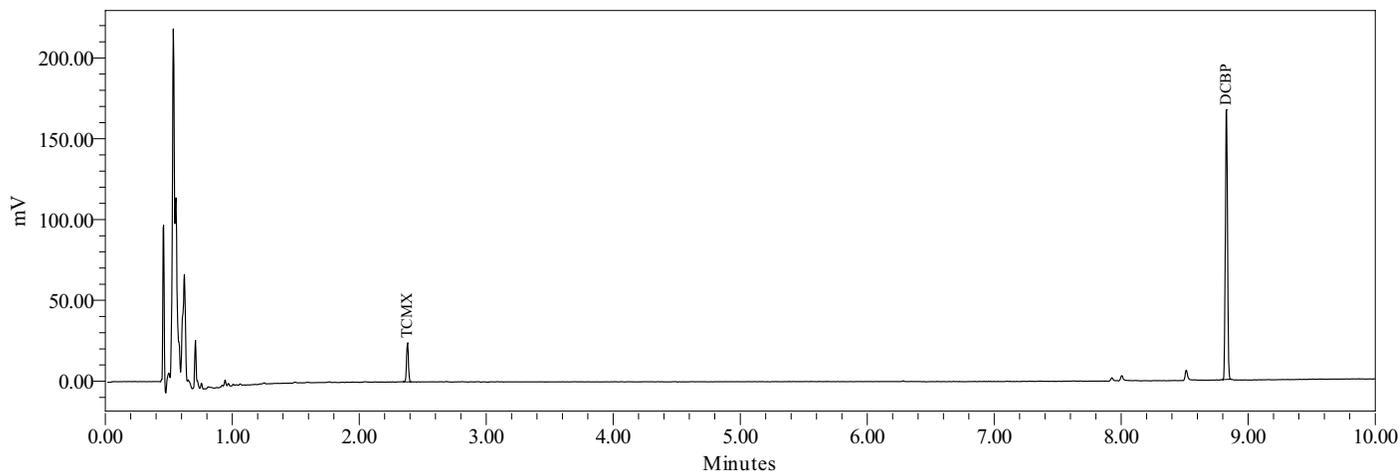
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|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150312B04                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 3/13/2015 2:41:55 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 3/13/2015 8:35:01 AM EDT |
| Sample Set Name:   | GC28F_LLCC_031215        | User Name:      | Angela Racine (AngelaR)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 3/13/2015                |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:34:51 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1565-58 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP   |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|----------|
| 1 | TCMX      | 2.380          | bb               | 24738         | 5.072                | 101.43432 |          |
| 2 | DCBP      | 8.829          | bb               | 198463        | 48.509               |           | 97.01755 |



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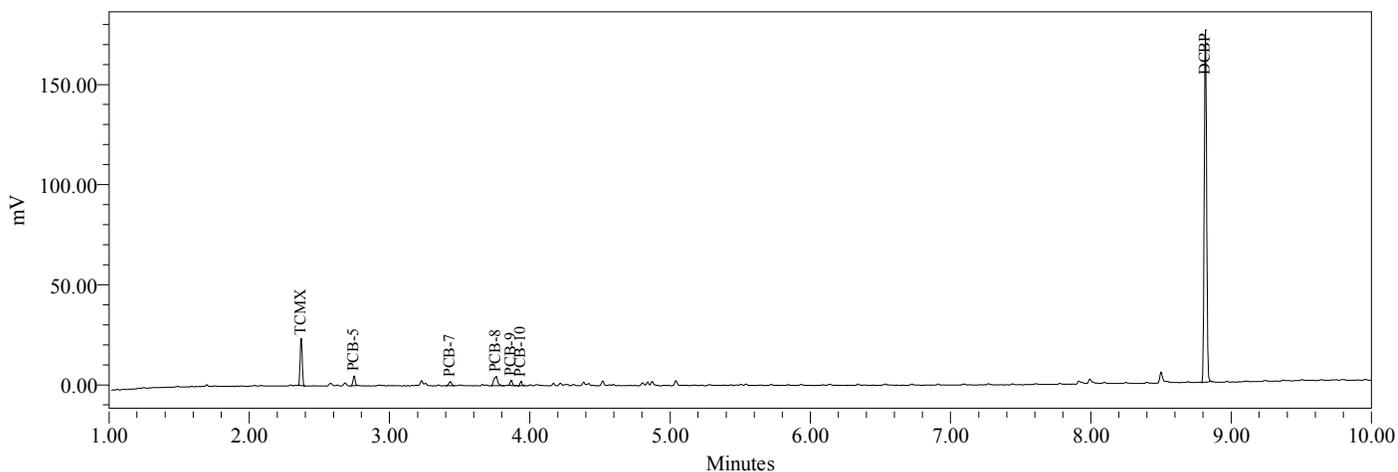
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|--------------------|-------------------------|-----------------|-------------------------|
| Sample Name:       | CS320608A               | Sample Amount:  | 1                       |
| Sample ID:         | A1232 50 PPB            | Dilution:       | 1                       |
| Date Acquired:     | 6/8/2015 7:55:16 AM EDT | Extract Volume: | 1                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed: | 6/8/2015 8:27:39 AM EDT |
| Sample Set Name:   | GC28F_060815            | User Name:      | Rachael Fife (RachaelF) |
| Processing Method: | GC28F_LLCC_031215       | Current Date:   | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:   | 10:31:24 AM US/Eastern  |
| Report Name:       | ChkStd_Rpt_Plt_50       | LIMS File ID:   | GC28F-1637-3 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.371          | bb               | 24207         | 4.960                | 99.2        |             |
| 2 PCB-5   | 2.747          | bb               | 5104          |                      |             |             |
| 3 PCB-7   | 3.433          | bb               | 2499          |                      |             |             |
| 4 PCB-8   | 3.759          | bb               | 8502          |                      |             |             |
| 5 PCB-9   | 3.868          | bb               | 3008          |                      |             |             |
| 6 PCB-10  | 3.937          | bb               | 2086          |                      |             |             |
| 7 DCBP    | 8.817          | bb               | 203506        | 49.828               |             | 99.7        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 16095               | 18.964               | -62.07              |        |      |
| 2 A1221     | 5104                | 20.347               | -59.31              |        |      |
| 3 A1221-2   | 5104                | 21.951               | -56.10              |        |      |
| 4 A1232     | 21199               | 48.590               | -2.82               | X      |      |
| 5 A1232-8/9 | 9689                | 47.085               | -5.83               |        |      |
| 6 A1242     | 16095               | 24.300               | -51.40              |        |      |



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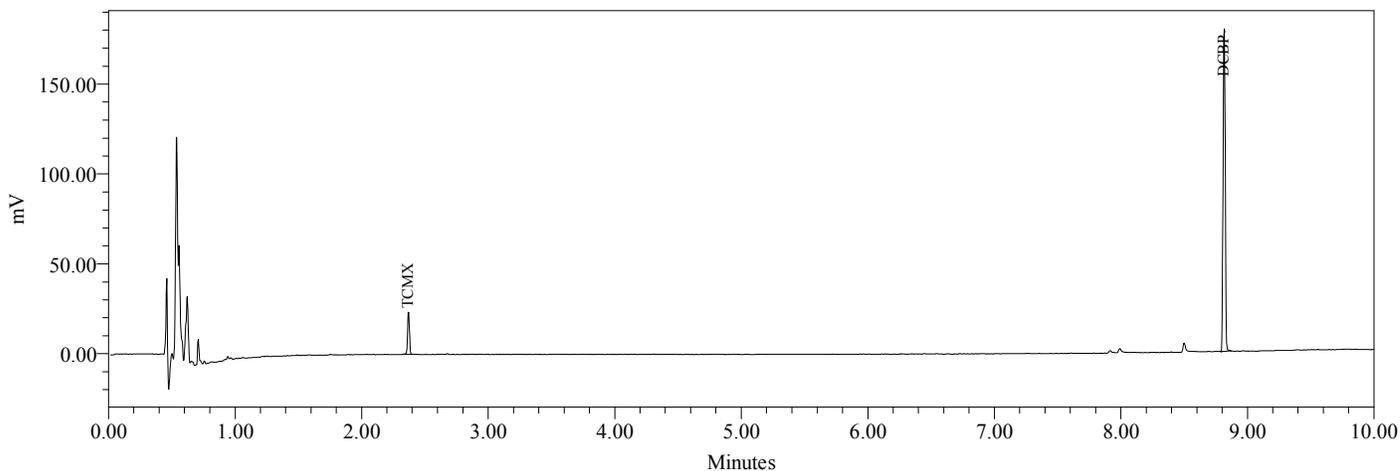
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Sample Name: 150608B03 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/8/2015 8:08:52 AM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/8/2015 8:28:03 AM EDT  
Sample Set Name: GC28F\_060815 User Name: Rachael Fife (RachaelF)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/8/2015  
Run Time: 10.0 Minutes Current Time: 10:39:05 AM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1637-4 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.371          | bb               | 24396         | 5.000                | 100.00186 |           |
| 2 DCBP    | 8.816          | bb               | 209372        | 51.362               |           | 102.72482 |



**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

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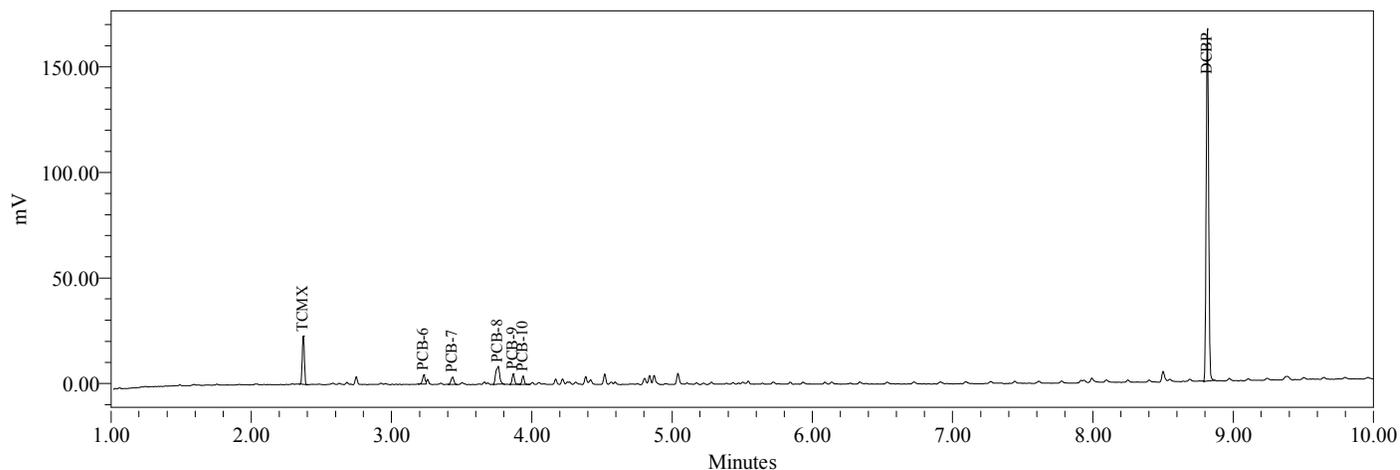
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS420608A                | Sample Amount:  | 1                        |
| Sample ID:         | A1242 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/8/2015 10:06:15 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/8/2015 10:19:06 AM EDT |
| Sample Set Name:   | GC28F_060815A            | User Name:      | Rachael Fife (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 10:31:29 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1637-11 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | bb               | 24350         | 4.991                | 99.8        |             |
| 2 PCB-6   | 3.230          | bV               | 5659          |                      |             |             |
| 3 PCB-7   | 3.434          | bb               | 4579          |                      |             |             |
| 4 PCB-8   | 3.760          | bb               | 15709         |                      |             |             |
| 5 PCB-9   | 3.869          | bV               | 6197          |                      |             |             |
| 6 PCB-10  | 3.937          | Vb               | 4349          |                      |             |             |
| 7 DCBP    | 8.817          | bb               | 198548        | 48.531               |             | 97.1        |

**Group Results**

| Group Name  | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|-------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1016     | 36492               | 43.227               | -13.55              |        |      |
| 2 A1232     | 30834               | 70.679               | 41.36               |        |      |
| 3 A1232-8/9 | 8928                | 43.349               | -13.30              |        |      |
| 4 A1242     | 36492               | 55.322               | 10.64               | X      |      |



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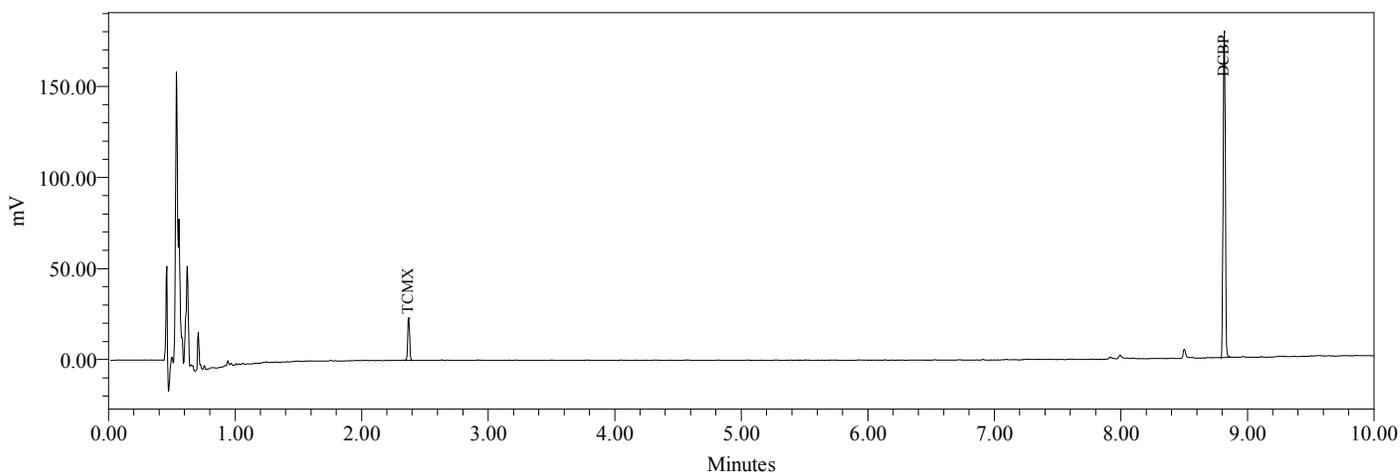
**Phone: (518) 346-4592 Fax: (518) 381-6055**

**www.pacelabs.com**

Sample Name: 150608B04 Sample Amount: 1  
Sample ID: HEXANE BLANK-SURR Dilution: 1  
Date Acquired: 6/8/2015 10:20:14 AM EDT Extract Volume: 1  
Project Name: GC28F\_Jan\_2015 Date Processed: 6/8/2015 10:32:17 AM EDT  
Sample Set Name: GC28F\_060815A User Name: Rachael Fife (RachaelF)  
Processing Method: GC28F\_LLCC\_031215 Current Date: 6/8/2015  
Run Time: 10.0 Minutes Current Time: 10:41:14 AM US/Eastern  
Report Name: IB\_Rpt\_Plt\_ LIMS File ID: GC28F-1637-12 [m]

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 TCMX    | 2.372          | bb               | 24882         | 5.102                | 102.03515 |           |
| 2 DCBP    | 8.816          | bb               | 210380        | 51.626               |           | 103.25217 |



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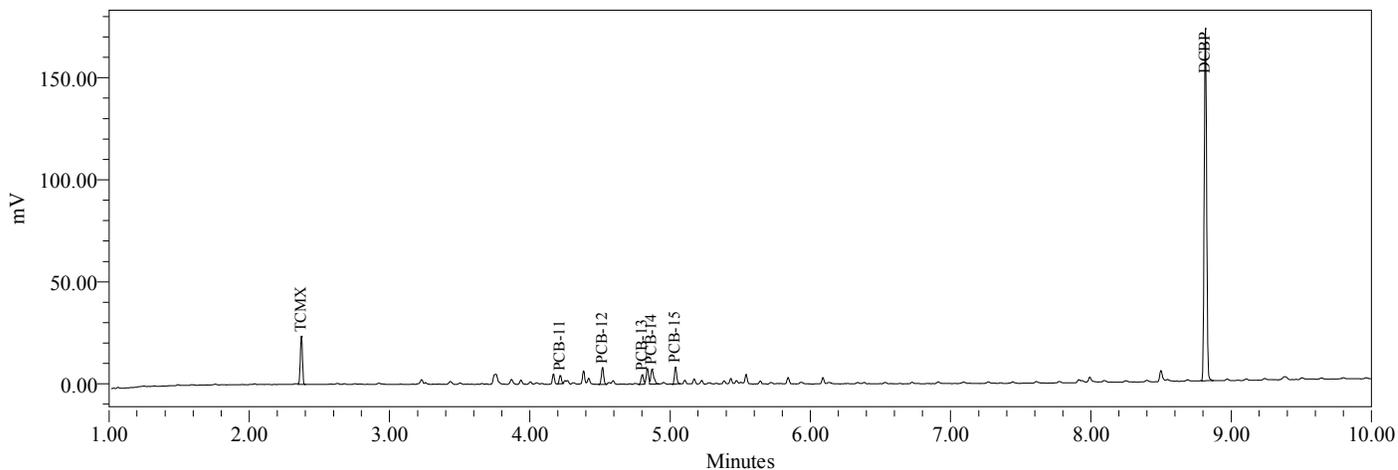
|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | CS480608A                | Sample Amount:  | 1                        |
| Sample ID:         | A1248 50 PPB             | Dilution:       | 1                        |
| Date Acquired:     | 6/8/2015 11:34:22 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/8/2015 11:46:08 AM EDT |
| Sample Set Name:   | GC28F_060815B            | User Name:      | Rachael Fife (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 11:55:07 AM US/Eastern   |
| Report Name:       | ChkStd_Rpt_Plt_50        | LIMS File ID:   | GC28F-1637-14 [m]        |

**Peak Results**

| Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 TCMX    | 2.372          | vb               | 25193         | 5.167                | 103.3       |             |
| 2 PCB-11  | 4.217          | bb               | 4041          |                      |             |             |
| 3 PCB-12  | 4.518          | bb               | 8915          |                      |             |             |
| 4 PCB-13  | 4.802          | bV               | 5366          |                      |             |             |
| 5 PCB-14  | 4.871          | Vb               | 10771         |                      |             |             |
| 6 PCB-15  | 5.039          | bb               | 9440          |                      |             |             |
| 7 DCBP    | 8.817          | bb               | 203112        | 49.725               |             | 99.5        |

**Group Results**

| Group Name    | Group Area (uV*sec) | Solution Conc. ng/mL | Cont. Check % Diff. | Report | Note |
|---------------|---------------------|----------------------|---------------------|--------|------|
| 1 A1248       | 38533               | 51.624               | 3.25                | X      |      |
| 2 A1248-11/15 | 25052               | 52.110               | 4.22                |        |      |
| 3 A1248-14/15 | 18322               | 51.146               | 2.29                |        |      |



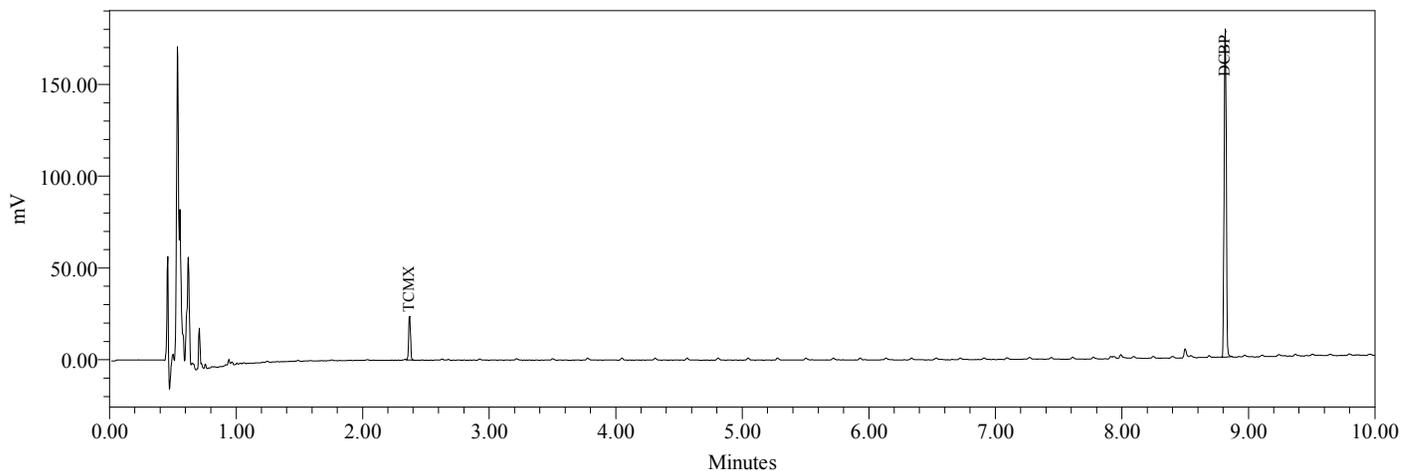
12

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**Phone: (518) 346-4592 Fax: (518) 381-6055**  
**www.pacelabs.com**

|                    |                          |                 |                          |
|--------------------|--------------------------|-----------------|--------------------------|
| Sample Name:       | 150608B05                | Sample Amount:  | 1                        |
| Sample ID:         | HEXANE BLANK-SURR        | Dilution:       | 1                        |
| Date Acquired:     | 6/8/2015 11:48:28 AM EDT | Extract Volume: | 1                        |
| Project Name:      | GC28F_Jan_2015           | Date Processed: | 6/8/2015 11:59:20 AM EDT |
| Sample Set Name:   | GC28F_060815B            | User Name:      | Rachael Fife (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215        | Current Date:   | 6/8/2015                 |
| Run Time:          | 10.0 Minutes             | Current Time:   | 11:59:54 AM US/Eastern   |
| Report Name:       | IB_Rpt_Plt_              | LIMS File ID:   | GC28F-1637-15 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | % TCMX    | % DCBP    |
|---|-----------|----------------|------------------|---------------|----------------------|-----------|-----------|
| 1 | TCMX      | 2.371          | bb               | 24645         | 5.052                | 101.04473 |           |
| 2 | DCBP      | 8.816          | bb               | 209453        | 51.384               |           | 102.76727 |



# QC SAMPLE RAW DATA

**1D-1**  
**PCB ANALYSIS DATA SHEET**

|  |                                   |
|--|-----------------------------------|
| Laboratory Name: <u>Pace Analytical Services, Inc.</u>                 | SDG No: <u>15060189</u>           |
| ELAP ID No: <u>11078</u>   | LRF ID: <u>PBLK-40</u>            |
| Matrix: <u>Water</u>   | Client ID: <u>METHOD BLANK</u>    |
| Sample wt(Dry)/vol: <u>1000 mL</u>                                     | Lab Sample ID: <u>AS12334B</u>    |
| Percent Moisture: <u>100</u>   | Lab File ID: <u>GC28F-1637-5</u>  |
| Extraction: <u>1L - Solid Phase Extraction</u>                         | Date Received: <u>NA</u>          |
| Conc. Extract Volume: <u>NA</u>  | Date Extracted: <u>06/07/2015</u> |
| Injection Volume: <u>1.0 uL</u>  | Date Analyzed: <u>06/08/2015</u>  |
| Method: <u>NE273_04 (Quick TAT Aroclor Method)</u>                     | Dilution Factor: <u>1</u>         |
| GC Column: <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup: <u>YES</u>        |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.0250                | U |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**  
**Phone: (518) 346-4592 Fax: (518) 381-6055**  
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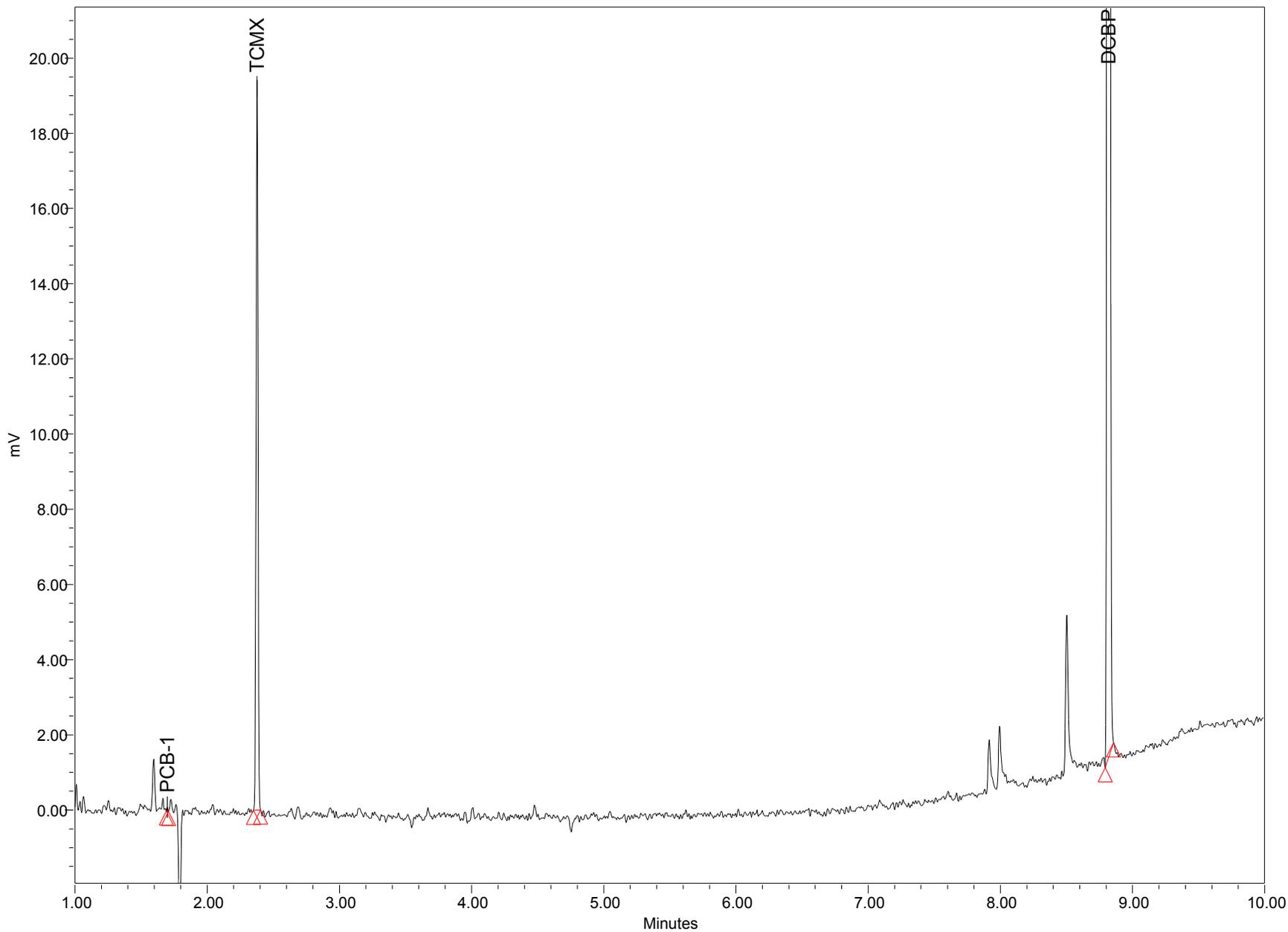
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS12334B                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | METHOD BLANK            | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 8:43:22 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 9:53:00 AM EDT |
| Sample Set Name:   | GC28F_060815A           | User Name:          | Rachael Fiè (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:29:22 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-5 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | PCB-1     | 1.698          | bb               | 63            |                      |             |             |
| 2 | TCMX      | 2.377          | bb               | 19947         | 4.068                | 81.4        |             |
| 3 | DCBP      | 8.819          | bb               | 203044        | 49.707               |             | 99.4        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | SolutionConc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|---------------------|-------------|----------|----------|--------|------|
| 1 | A1221      | 62.9085             | 0.314               | 0.00157     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1221-2    | 62.9085             | 0.881               | 0.00440     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1221-5    | 62.9085             | 0.919               | 0.00460     | 0.0250   | 0.00873  | NR     |      |



— SampleName AS12334B; Sample\_ID METHOD BLANK

**1D-1  
PCB ANALYSIS DATA SHEET**

|                       |   |                  |                          |
|-----------------------|---|------------------|--------------------------|
| Laboratory Name:      | <u>Pace Analytical Services, Inc.</u>                       | SDG No:          | <u>15060189</u>          |
| ELAP ID No:           | <u>11078</u>  | LRF ID:          | <u>LCS-40</u>            |
| Matrix:               | <u>Water</u>  | Client ID:       | <u>LAB CONTROL SPIKE</u> |
| Sample wt(Dry)/vol:   | <u>1000 mL</u>  | Lab Sample ID:   | <u>AS12334L</u>          |
| Percent Moisture:     | <u>100</u>  | Lab File ID:     | <u>GC28F-1637-6</u>      |
| Extraction:           | <u>1L - Solid Phase Extraction</u>                          | Date Received:   | <u>NA</u>                |
| Conc. Extract Volume: | <u>NA</u>   | Date Extracted:  | <u>06/07/2015</u>        |
| Injection Volume:     | <u>1.0 uL</u>   | Date Analyzed:   | <u>06/08/2015</u>        |
| Method:               | <u>NE273_04 (Quick TAT Aroclor Method)</u>                  | Dilution Factor: | <u>1</u>                 |
| GC Column:            | <u>Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm</u> | Sulfur Cleanup:  | <u>YES</u>               |

| CAS NO     | COMPOUND NAME | CONCENTRATION<br>UG/L | Q |
|------------|---------------|-----------------------|---|
| 12674-11-2 | Aroclor 1016  | 0.0250                | U |
| 11104-28-2 | Aroclor 1221  | 0.0250                | U |
| 11141-16-5 | Aroclor 1232  | 0.0250                | U |
| 53469-21-9 | Aroclor 1242  | 0.235                 |   |
| 12672-29-6 | Aroclor 1248  | 0.0250                | U |
| 11097-69-1 | Aroclor 1254  | 0.0250                | U |
| 11096-82-5 | Aroclor 1260  | 0.0250                | U |

Laboratory Qualifiers:

U - Denotes analyte not detected at concentration greater than or equal to the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

This is not a NYSDOH ELAP certified method.

FORM I-CLP-PCB

**Pace Analytical Services - NY Lab , 2190 Technology Drive, Schenectady, NY 12308**

**Phone: (518) 346-4592 Fax: (518) 381-6055**

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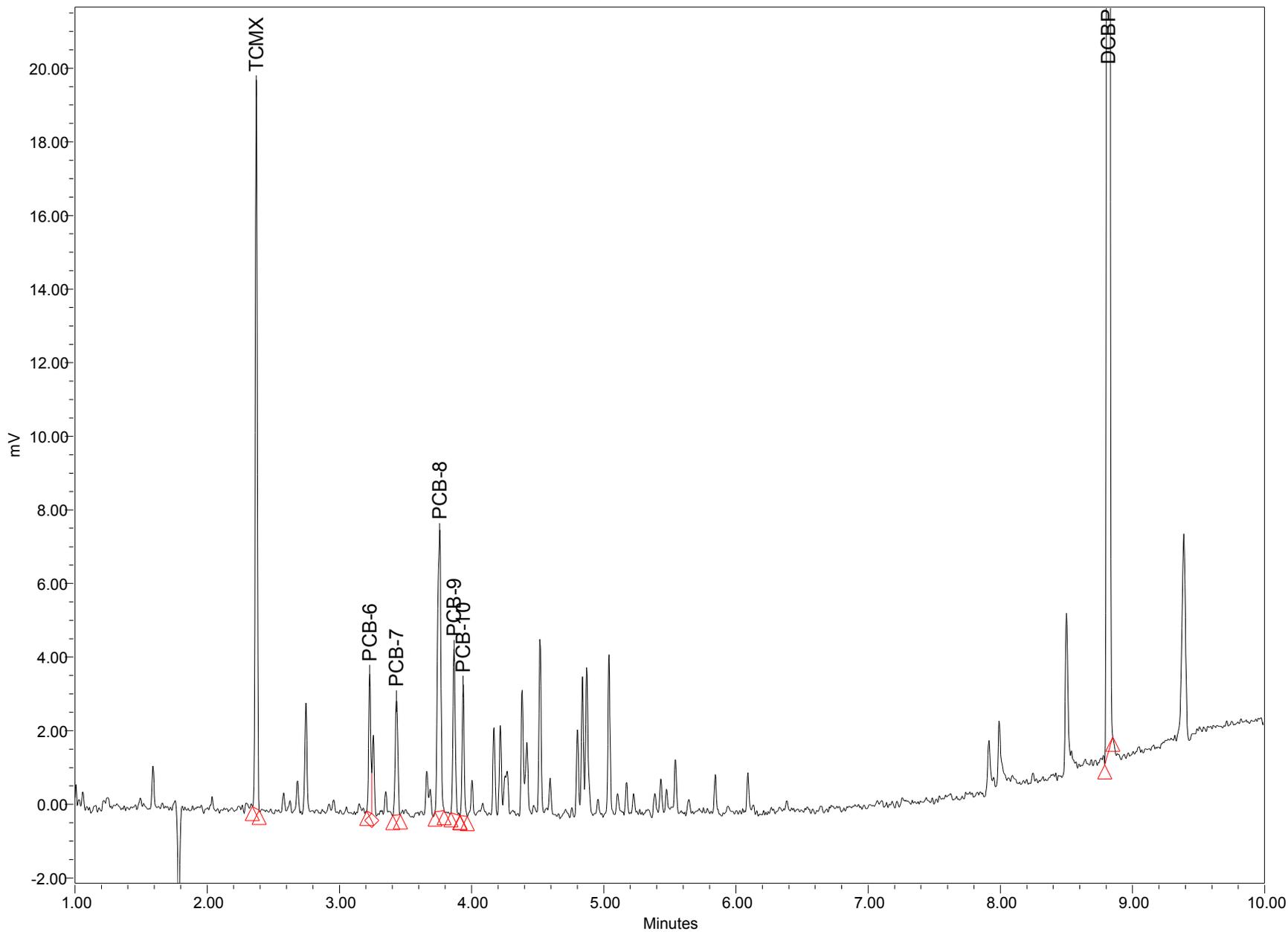
|                    |                         |                     |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Sample Name:       | AS12334L                | Sample Amount (L) : | 1.0000                  |
| Sample ID:         | LAB CONTROL SPIKE       | Dilution:           | 5                       |
| Date Acquired:     | 6/8/2015 8:57:04 AM EDT | Extract Volume:     | 5                       |
| Project Name:      | GC28F_Jan_2015          | Date Processed:     | 6/8/2015 9:56:04 AM EDT |
| Sample Set Name:   | GC28F_060815A           | User Name:          | Rachael Fi  (RachaelF)  |
| Processing Method: | GC28F_LLCC_031215       | Current Date:       | 6/8/2015                |
| Run Time:          | 10.0 Minutes            | Current Time:       | 10:29:31 AM US/Eastern  |
| Report Name:       | H2O rpt LIMS2 ugL       | LIMS File ID:       | GC28F-1637-6 [m]        |

**Peak Results**

|   | Peak Name | Ret Time (min) | Integration Type | Area (uV*sec) | Solution Conc. ng/mL | TCMX % Rec. | DCBP % Rec. |
|---|-----------|----------------|------------------|---------------|----------------------|-------------|-------------|
| 1 | TCMX      | 2.371          | bb               | 20655         | 4.217                | 84.3        |             |
| 2 | PCB-6     | 3.229          | bV               | 4140          |                      |             |             |
| 3 | PCB-7     | 3.432          | bb               | 4303          |                      |             |             |
| 4 | PCB-8     | 3.758          | bb               | 13396         |                      |             |             |
| 5 | PCB-9     | 3.867          | bB               | 5443          |                      |             |             |
| 6 | PCB-10    | 3.936          | Bb               | 3778          |                      |             |             |
| 7 | DCBP      | 8.816          | bb               | 200238        | 48.973               |             | 97.9        |

**Group Results**

|   | Group Name | Group Area (uV*sec) | Solution Conc. ng/mL | Amount ug/L | PQL ug/L | MDL ug/L | Report | Note |
|---|------------|---------------------|----------------------|-------------|----------|----------|--------|------|
| 1 | A1016      | 31059.6812          | 36.765               | 0.18382     | 0.0250   | 0.00873  | NR     |      |
| 2 | A1232      | 26919.9870          | 61.707               | 0.30853     | 0.0250   | 0.00873  | NR     |      |
| 3 | A1232-8/9  | 8081.3288           | 39.194               | 0.19597     | 0.0250   | 0.00873  | NR     |      |
| 4 | A1242      | 31059.6812          | 47.060               | 0.23530     | 0.0250   | 0.00873  | X      |      |



SampleName AS12334L; Sample\_ID LAB CONTROL SPIKE

# CERTIFICATES OF ANALYSIS (PCB)



## Analytical Sample Results

Job Number: 15060189

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/07/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150607125205 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-01 (AS12334)     | <b>Percent Solid:</b> N/A                |

| Batch ID                 | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|--------------------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: GC28F-1637-7 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 09:11 | RF      | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30976            | EPA 3535A                           | 06/07/2015 14:30 | ER      | 1000 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-7 |
| Aroclor 1221          | 11104-28-2 | 0.122         | 0.0250 | 1.00            | PB    | GC28F-1637-7 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-7 |
| Aroclor 1242          | 53469-21-9 | 0.0204        | 0.0250 | 1.00            | AD,J  | GC28F-1637-7 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-7 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-7 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-7 |
| Total PCB Amount > RL | 1336-36-3  | 0.1424        |        | 1.00            |       | GC28F-1637-7 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 88.4       | 70.0-130   |                | GC28F-1637-7 |
| Decachlorobiphenyl      | 2051-24-3 | 86.3       | 70.0-130   |                | GC28F-1637-7 |

<sup>1</sup>Qualifier column where "R" denotes value outside the control limits or "D" denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the PQL.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060189

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-LOC5-T150607125229  
**Lab Sample ID:** 15060189-02 (AS12335)

**Collection Date:** 06/06/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1637-8 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 09:24 | RF      | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30976        | EPA 3535A                           | 06/07/2015 14:30 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-8 |
| Aroclor 1221          | 11104-28-2 | <b>0.192</b>  | 0.0250 | 1.00            | PB    | GC28F-1637-8 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-8 |
| Aroclor 1242          | 53469-21-9 | <b>0.0258</b> | 0.0250 | 1.00            | AD    | GC28F-1637-8 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-8 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-8 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-8 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2178</b> |        | 1.00            |       | GC28F-1637-8 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 91.1       | 70.0-130   |                | GC28F-1637-8 |
| Decachlorobiphenyl      | 2051-24-3 | 89.0       | 70.0-130   |                | GC28F-1637-8 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



## Analytical Sample Results

Job Number: 15060189

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/07/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150607125316 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-03 (AS12336)     | <b>Percent Solid:</b> N/A                |

|             | Batch ID     | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column   |
|-------------|--------------|-------------------------------------|------------------|---------|---------------|------------|--|
| Analysis 1: | GC28F-1637-9 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 09:38 | RF      | NA            | NA         | Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1:     | 30976        | EPA 3535A                           | 06/07/2015 14:30 | ER      | 1040 mL       | 5.00 mL    | NA   |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID      |
|-----------------------|------------|---------------|--------|-----------------|-------|--------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-9 |
| Aroclor 1221          | 11104-28-2 | <b>0.144</b>  | 0.0250 | 1.00            | PB    | GC28F-1637-9 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-9 |
| Aroclor 1242          | 53469-21-9 | <b>0.0431</b> | 0.0250 | 1.00            | AD    | GC28F-1637-9 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-9 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-9 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-9 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.1871</b> |        | 1.00            |       | GC28F-1637-9 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID      |
|-------------------------|-----------|------------|------------|----------------|--------------|
| Tetrachloro-meta-xylene | 877-09-8  | 91.7       | 70.0-130   |                | GC28F-1637-9 |
| Decachlorobiphenyl      | 2051-24-3 | 93.3       | 70.0-130   |                | GC28F-1637-9 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.



# Analytical Sample Results

Job Number: 15060189

Pace Analytical Services, Inc.  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

**Client:** General Electric Company  
**Project:** HUDSON RIVER RAMP  
**Client Sample ID:** FRS-WAFA-T150607125337  
**Lab Sample ID:** 15060189-04 (AS12337)

**Collection Date:** 06/06/2015 06:00  
**Sample Matrix:** WATER  
**Received Date:** 06/07/2015 14:00  
**Percent Solid:** N/A

| Batch ID                  | Method                              | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column  |
|---------------------------|-------------------------------------|------------------|---------|---------------|------------|---|
| Analysis 1: GC28F-1637-13 | NE273_04 (Quick TAT Aroclor Method) | 06/08/2015 11:20 | RF      | NA            | NA         | Phenomenex, Zebtron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm |
| Prep 1: 30976             | EPA 3535A                           | 06/07/2015 14:30 | ER      | 1000 mL       | 5.00 mL    | NA  |

| Analyte               | CAS No.    | Result (ug/L) | PQL    | Dilution Factor | Flags | File ID       |
|-----------------------|------------|---------------|--------|-----------------|-------|---------------|
| Aroclor 1016          | 12674-11-2 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-13 |
| Aroclor 1221          | 11104-28-2 | <b>0.195</b>  | 0.0250 | 1.00            | PB    | GC28F-1637-13 |
| Aroclor 1232          | 11141-16-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-13 |
| Aroclor 1242          | 53469-21-9 | <b>0.0644</b> | 0.0250 | 1.00            | AD    | GC28F-1637-13 |
| Aroclor 1248          | 12672-29-6 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-13 |
| Aroclor 1254          | 11097-69-1 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-13 |
| Aroclor 1260          | 11096-82-5 | ND            | 0.0250 | 1.00            | U     | GC28F-1637-13 |
| Total PCB Amount > RL | 1336-36-3  | <b>0.2594</b> |        | 1.00            |       | GC28F-1637-13 |

| Surrogate               | CAS No.   | % Recovery | Limits (%) | Q <sup>1</sup> | File ID       |
|-------------------------|-----------|------------|------------|----------------|---------------|
| Tetrachloro-meta-xylene | 877-09-8  | 90.1       | 70.0-130   |                | GC28F-1637-13 |
| Decachlorobiphenyl      | 2051-24-3 | 95.8       | 70.0-130   |                | GC28F-1637-13 |

<sup>1</sup>Qualifier column where \*R\* denotes value outside the control limits or \*D\* denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

This is not a NYSDOH ELAP certified method.

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

PB-Aroclor 1221 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1221 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

# TOTAL SUSPENDED SOLIDS

**FORM 3**  
**TOTAL SUSPENDED SOLIDS DUPLICATE SAMPLE ANALYSIS SUMMARY**

Laboratory Name: Pace Analytical Services, Inc.

SGD No: 15060189

ELAP ID No: 11078

Duplicate Lab ID No: AS12337D

Date Analyzed: 6/8/2015

Original Lab ID No: AS12337

| TEST PARAMETER         | ORIGINAL SAMPLE<br>RESULT<br>(mg/L) | DUPLICATE SAMPLE<br>RESULT<br>(mg/L) | RELATIVE <sup>1</sup><br>PERCENT<br>DIFFERENCE (RPD) # |
|------------------------|-------------------------------------|--------------------------------------|--|
| TOTAL SUSPENDED SOLIDS | 18.0                                | 19.6                                 | 8.43   |

<sup>1</sup> Relative Percent Difference Limit <=20%

# TOTAL SUSPENDED SOLIDS LOGBOOK (SM 2540D (97))



**Start:** Batch ID: 2115 Date In Oven: 06/08/2015 Temp: 103.3 degree C Analyst: Quillian McGlynn

**Finish:** STD Lot # 060515b9p11 Date Out Oven: 06/08/2015 Temp: 102.9 degree C Analyst: Quillian McGlynn

| Prep ID | Sample ID      | Lab Sample ID | Matrix | Used                                | Time In Oven | Time Out Oven | Crucible # | Volume Used (mL) | Initial Wt (g) | Final Wt (g) | TSS Result (mg/L) | Spike Amount (ppm) | % Rec | RPD  | Comments |
|---------|----------------|---------------|--------|-------------------------------------|--------------|---------------|------------|------------------|----------------|--------------|-------------------|--------------------|-------|------|----------|
| 29210   | BLANK-71       | AS11325B      | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQA        | 1000             | 0.1185         | 0.1184       | -0.1              |                    |       |      |          |
| 29211   | LCS-71         | AS11325L      | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQB        | 250              | 0.1165         | 0.1392       | 90.8              | 100                | 90.8  |      |          |
| 29208   | 15060019-01    | AS11325       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQC        | 176              | 0.1256         | 0.1361       | 59.7              |                    |       |      |          |
| 29209   | 15060019-02    | AS11326       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQD        | 980              | 0.1110         | 0.1118       | 0.816             |                    |       |      |          |
| 29212   | 15060024-01    | AS11341       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQE        | 980              | 0.1250         | 0.1255       | 0.51              |                    |       |      |          |
| 29213   | 15060024-02    | AS11342       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQF        | 70               | 0.1122         | 0.1289       | 239               |                    |       |      |          |
| 29214   | 15060032-01    | AS11362       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQG        | 540              | 0.1126         | 0.1168       | 7.78              |                    |       |      |          |
| 29215   | 15060032-02    | AS11363       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQH        | 1000             | 0.1130         | 0.1151       | 2.1               |                    |       |      |          |
| 29216   | 15060079-01    | AS11601       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQI        | 1060             | 0.1160         | 0.1176       | 1.51              |                    |       |      |          |
| 29217   | 15060189-01    | AS12334       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQJ        | 940              | 0.1174         | 0.1258       | 8.94              |                    |       |      |          |
| 29218   | 15060189-02    | AS12335       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQK        | 960              | 0.1188         | 0.1276       | 9.17              |                    |       |      |          |
| 29220   | 15060189-04    | AS12337       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQL        | 800              | 0.1190         | 0.1334       | 18                |                    |       |      |          |
| 29221   | 15060189-04DUP | AS12337D      | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQM        | 720              | 0.1205         | 0.1346       | 19.6              |                    |       | 8.43 |          |
| 29219   | 15060189-03    | AS12336       | L      | <input checked="" type="checkbox"/> | 10:06        | 12:20         | WQN        | 740              | 0.1123         | 0.1261       | 18.6              |                    |       |      |          |

Note: LCS Recovery Limits: 85 - 115%.

Analyst Review: Quillian McGlynn  
 Quillian McGlynn

Peer Review: Jeanne Shoulder  
 Jeanne Shoulder

PrintDate: 6/9/2015  
 Lims Version : 5.0.8.9  
 \_WL\_TSS\_LOGBOOK\_SIG; Rev 02; 11.15.2009; INORG



**Analytical Sample Results**

**Job Number:** 15060189

**Pace Analytical Services, Inc.**  
 2190 Technology Drive  
 Schenectady, NY 12308  
 Phone: 518.346.4592  
 Fax: 518.381.6055

|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/07/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150607125205 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-01 (AS12334)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2115 | SM 2540D | 06/08/2015 10:06 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 8.94          | 1.06 | 1.06            |       | 2115    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



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|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/06/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-LOC5-T150607125229 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-02 (AS12335)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2115 | SM 2540D | 06/08/2015 10:06 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 9.17          | 1.04 | 1.04            |       | 2115    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



**Analytical Sample Results**

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|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/07/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150607125316 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-03 (AS12336)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2115 | SM 2540D | 06/08/2015 10:06 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 18.6          | 1.35 | 1.35            |       | 2115    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.



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|   |  |
|---|--|
| <b>Client:</b> General Electric Company         | <b>Collection Date:</b> 06/06/2015 06:00 |
| <b>Project:</b> HUDSON RIVER RAMP               | <b>Sample Matrix:</b> WATER              |
| <b>Client Sample ID:</b> FRS-WAFA-T150607125337 | <b>Received Date:</b> 06/07/2015 14:00   |
| <b>Lab Sample ID:</b> 15060189-04 (AS12337)     | <b>Percent Solid:</b> N/A                |

| Batch ID         | Method   | Date             | Analyst | Init Wt./Vol. | Final Vol. | Column |
|------------------|----------|------------------|---------|---------------|------------|--------|
| Analysis 1: 2115 | SM 2540D | 06/08/2015 10:06 | QKM     | NA            | NA         | NA     |

| Analyte                | CAS No. | Result (mg/L) | PQL  | Dilution Factor | Flags | File ID |
|------------------------|---------|---------------|------|-----------------|-------|---------|
| Total Suspended Solids | WQ001   | 18.0          | 1.25 | 1.25            |       | 2115    |

ND: Denotes analyte not detected at a concentration greater than the PQL.  
 PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.